ATTORNEY DOCKET NO. 25006.0016U2

SEQUENCE LISTING ·

<110> Breaker, Ronald R.
Nahvi, Ali
Sudarsan, Narasimhan
Ebert, Margaret S.
Winkler, Wade
Barrick, Jeffrey E.
Wickiser, John K.

<120> RIBOSWITCHES, METHODS FOR THEIR USE, AND
COMPOSITIONS FOR USE WITH RIBOSWITCHES

<130> 25006.0016U2

<140> 10/669,162
<141> 2003-09-22

<150> 60/412,468
<151> 2002-09-20

<160> 377

<170> FastSEQ for Windows Version 4.0

<210> 1
<211> 202
<212> RNA
<213> Escherichia coli

<400> 1
gccgguccug ugaguuaaua gggaauccag ugcgaaucug gagcugacgc gcagcgguaa 60
ggaaaggugc gaugauugcg uuaugcggac acugccauuc ggugggaagu caucaucucu 120
uaguaucuua gauaccccuc caagcccgaa gaccugccgg ccaacgucgc aucugguucu 180
caucaucgcg uaauauugau ga 202

<210> 2
<211> 165
<212> RNA
<213> Escherichia coli

<220>
<221> misc_feature
<222> 155
<223> r = a or g

<220>
<221> misc_feature
<222> 157
<223> y = c or t/u

<400> 2
ggaaccaaac gacucggggu gcccuucugc gugaaggcug agaaauaccc guaucaccug 60
aucuggauaa ugccagcgua gggaagucac ggaccaccag gucauugcuu cuucacguua 120
uggcaggagc aaacuaugca agucgaccug cuggruycag cgcaa 165

```
<210> 3
<211> 240
<212> RNA
<213> Escherichia coli

<220>
<221> misc_feature
<222> (155)...(240)
<223> n = g, a, c, or t/u

<400> 3
ggaaugcccc auuugcgggg cuaauuucuu gucggagugc cuuaacuggc ugagaccguu 60
uauucgggau ccgcggaacc ugaucaggcu aauaccugcg aagggaacaa gaguuaaucu 120
gcuaucgcau cgccccugcg gcgaucgucu cuugnnnnnn nnnnnnnnnn nnnnnnnnnn 180
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240


<210> 4
<211> 165
<212> RNA
<213> Escherichia coli

<220>
<221> misc_feature
<222> 65, 74, 107, 130
<223> s = g or c

<220>
<221> misc_feature
<222> 25, 26, 34, 35, 64, 75, 106, 131
<223> w = a or t/u

<400> 4
ggaaccaaac gacucggggu gcccwwcugc gugwwggcug agaaauaccc guaucaccug 60
aucwsgauaa ugcswgcgua gggaagucac ggaccaccag gucauwscuu cuucacguua 120
uggcaggags waacuaugca agucgaccug cuggauccag cgcaa 165


<210> 5
<211> 176
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:/Note =
      synthetic construct

<220>
<221> misc_feature
<222> (39)...(156)
<223> n = g, a, c or t/u

<400> 5
ggauaauagc cguagguugc gaaagcgacc cugaguagnn nnnnncaaga gaagcagagg 60
gacuggcccg acgaagcuuc agcaaccggu guaauggcga ucagccauga ccaaggugcu 120
aaauccagca agcucgaaca gcuuggaagn nnnnncgaa acgguagcga gagcuc 176
```

<210> 6
<211> 97
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:/Note =
      synthetic construct

<220>
<221> misc_feature
<222> 1, 6, 26, 58, 66, 76, 97
<223> n = a variable number of any nucleotide

<220>
<221> misc_feature
<222> 5, 7, 8, 11, 12, 18-20, 24, 25, 29, 30, 33-35, 38, 40, 41,
47, 50, 54-56, 59, 60, 75, 77-79, 85, 89, 93
<223> n = g, a, c or t/u

<220>
<221> misc_feature
<222> 27, 36, 48, 53, 57, 80, 87
<223> r = a or g

<220>
<221> misc_feature
<222> 67, 83
<223> y = c or t/u

<400> 6
nggunnnnaa nngggaannn ggunnnrann ccnnnrcngn ncccgcnrcn gurnnnrnnn 60
cacugnyggg aaggnnnnnr agycngrana ccngccn   97

<210> 7
<211> 56
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:/Note =
      synthetic construct

<220>
<221> misc_feature
<222> 7, 50
<223> d = g, a or t(u)

<220>
<221> misc_feature
<222> 1, 8, 15, 36, 56
<223> n = a variable number of any nucleotide

<220>
<221> misc_feature
<222> 2-5, 17-20, 21-24, 30-34, 38-40, 41-43, 45-47
<223> n = g, a, c or t/u

3

<220>
<221> misc_feature
<222> 54
<223> r = a or g

<400> 7
nnnnngdncu gaganannnn nnnnaccugn nnnncnunnn nnngnnncgd aggran   56

<210> 8
<211> 97
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:/Note =
      synthetic construct

<220>
<221> misc_feature
<222> 57, 62
<223> k = g or t/u

<220>
<221> misc_feature
<222> 37, 47
<223> n = a variable number of any nucleotide

<220>
<221> misc_feature
<222> 11, 17, 20, 25, 36, 46, 48, 58, 61, 77-79
<223> n = g, a, c or t/u

<220>
<221> misc_feature
<222> 6, 35, 43, 54, 59, 65-68, 74, 90, 91, 95-97
<223> r = a or g

<220>
<221> misc_feature
<222> 1-3, 15, 31, 40, 44, 51-53, 64, 84
<223> y = c or t/u

<400> 8
yyyucrgggc ngggygnaan ucccnaccgg yggurnnagy ccrygnnnga yyyrguknra 60
nkcyrrrrcc gacrgunnna gucyggaugr ragarrr   97

<210> 9
<211> 86
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:/Note =
      synthetic construct

<220>
<221> misc_feature
<222> 52, 72
<223> n = a variable number of any nucleotide

<220>
<221> misc_feature
<222> 1, 7-9, 13, 14, 16, 18, 25, 26, 32, 33, 37, 39, 42, 43, 50,
51, 53-55, 62, 63, 66-69, 71, 73, 75, 76, 78, 79, 86
<223> n = g, a, c or t/u

<220>
<221> misc_feature
<222> 38, 44, 70, 77, 83
<223> r = a or g

<220>
<221> misc_feature
<222> 17, 34, 60, 74
<223> y = c or t/u

<400> 9
ncuuaunnng agnngnynga gggannggcc cnnyganrnc cnnrgcaacn nnnnngugcy 60
annccnnnnr nnnynnrnng auragn   86

<210> 10
<211> 69
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:/Note =
      synthetic construct

<220>
<221> misc_feature
<222> 1, 2, 10-17, 22, 25-31, 34, 40-46, 54-60, 68, 69
<223> n = g, a, c or t/u

<220>
<221> misc_feature
<222> 5, 18, 67
<223> r = a or g

<220>
<221> misc_feature
<222> 65
<223> y = c or t/u

<400> 10
nnucruauan nnnnnnnrau anggnnnnnn ngunucuacn nnnnnnccgu aaannnnnnn 60
acuaygrnn   69

<210> 11
<211> 69
<212> RNA
<213> Artificial Sequence

```
<220>
<223> Description of Artificial Sequence:/Note =
      synthetic construct

<220>
<221> misc_feature
<222> 1, 2, 10-17, 22, 25-31, 34, 40-46, 54-60, 68, 69
<223> n = g, a, c or t/u

<220>
<221> misc_feature
<222> 5, 18, 67
<223> r = a or g

<220>
<221> misc_feature
<222> 65
<223> y = c or t/u

<400> 11
nnucruauan nnnnnnnrau anggnnnnnn ngunucuacn nnnnnnccgu aaannnnnnn 60
auuaygrnn                                                        69

<210> 12
<211> 151
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:/Note =
      synthetic construct

<220>
<221> misc_feature
<222> 68, 76, 103, 133, 150
<223> y = c or t/u

<220>
<221> misc_feature
<222> 1, 35, 39, 42, 45, 89, 118, 121, 139, 151
<223> n = a variable number of any nucleotide

<220>
<221> misc_feature
<222> 13-18, 20, 21, 26-34, 40, 41, 43, 44, 46-50, 51-53, 59-67,
77-88, 90-101, 107-117, 122-132, 145
<223> n = g, a, c or t/u

<220>
<221> misc_feature
<222> 2, 12, 54, 55, 74, 102, 146
<223> r = a or g

<220>
<221> misc_feature
<222> 3, 149
<223> w = a or t/u
```

<220>
<221> misc_feature
<222> (9)...(9)
<223> h = a or c or t/u

<400> 12
nrwagagghg crnnnnnnan naguannnnn nnnnngagnn nnnnnnnnnn nnnrraggnn 60
nnnnnnnygc cgargynnnn nnnnnnnnnn nnnnnnnnnn nryuggnnnn nnnnnnnnaa 120
nnnnnnnnnn nnyugucanu ggagnrcuwy n   151

<210> 13
<211> 165
<212> RNA
<213> Bacillus subtilis

<400> 13
ggaaggacaa augaauaaag auuguauccu ucggggcagg guggaaaucc cgaccggcgg 60
uaguaaagca cauuugcuuu agagcccgug acccgugugc auaagcacgc gguggauuca 120
guuuaagcug aagccgacag ugaaagucug gaugggagaa ggaug   165

<210> 14
<211> 128
<212> RNA
<213> Arabidopsis thaliana

<400> 14
ggugaauuga caugcaaaag caccaggggu gcuugaacca ggauagccug cgaaaaggcg 60
ggcuauccgg gaccaggcug agaaaguccc uuugaaccug aacaggguaa ugccugcgca 120
gggagugu   128

<210> 15
<211> 135
<212> RNA
<213> Oryza sativa

<220>
<221> misc_feature
<222> (33)...(83)
<223> n = g, a, c or t/u

<400> 15
ggugaauuga caugcaaaag caccaggggu gcnnnnnnnn nnnnnnnnnn nnnnnnnnnn 60
nnnnnnnnnn nnnnnnnnnn nnngcugaga aagucccuuu gaaccugaac aggauaaugc 120
cugcgaaggg agugu   135

<210> 16
<211> 135
<212> RNA
<213> Poa secunda

<220>
<221> misc_feature
<222> (33)...(83)
<223> n = g, a, c or t/u

<400> 16
ggugaauuga caugcaaaag caccaggggu gcnnnnnnnn nnnnnnnnnn nnnnnnnnnn 60
nnnnnnnnnn nnnnnnnnnn nnngcugaga aagucccuuu gaaccugaac aggauaaugc 120
cugcguaggg agugu   135

<210> 17
<211> 176
<212> RNA
<213> Neurospora crassa

<220>
<221> misc_feature
<222> (15)...(123)
<223> n = g, a, c or t/u

<400> 17
gcuaccgggu guccnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 60
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120
nnnggucuga gaaauaccgg cgaacuugau cuggauaaua ccagcgaaag gauggc   176

<210> 18
<211> 66
<212> RNA
<213> Arabidopsis thaliana

<220>
<221> misc_feature
<222> 9, 58
<223> d = g, a or t(u)

<220>
<221> misc_feature
<222> 23, 44
<223> n = a variable number of any nucleotide

<220>
<221> misc_feature
<222> 1-7, 10-16, 25-32, 40-42, 46-51, 53-55, 64-66
<223> n = g, a, c or t/u

<220>
<221> misc_feature
<222> 62
<223> r = a or g

<400> 18
nnnnnnngdn nnnnnncuga ganannnnnn nnaccugaun nngnunnnnn ncnnncgdag 60
grannn   66

<210> 19
<211> 103
<212> RNA
<213> Escherichia coli

```
<220>
<221> misc_feature
<222> (12)...(51)
<223> n = g, a, c or t/u

<400> 19
accaaacgac uncggggugn nnnnnnnnnn nnnnncugag annnnnnnnn naauacccgu   60
aucaccugau cuggauaaug ccagcguagg gaagucacgg acc                   103

<210> 20
<211> 97
<212> RNA
<213> Escherichia coli

<220>
<221> misc_feature
<222> (12)...(29)
<223> n = g, a, c or t/u

<400> 20
uaauuucuug uncggagugn nnnnnnnnnc ugagaccguu uauucgggau ccgcggaacc   60
ugaucaggcu aauaccgcg aagggaacaa gaguuaa                            97

<210> 21
<211> 147
<212> RNA
<213> Clostridium acetobutylicum

<220>
<221> misc_feature
<222> (12)...(94)
<223> n = g, a, c or t/u

<400> 21
auauuuuagc unaggggugn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn   60
nnnnnnnnnn nnnnnnnnnc ugagaggang aaanuccaac ccuuugaacu ugauguaguu  120
aauacuaccg uagggaagca gugcauu                                     147

<210> 22
<211> 202
<212> RNA
<213> Neurospora crassa

<220>
<221> misc_feature
<222> (19)...(159)
<223> n = g, a, c or t/u

<400> 22
caagacagcu accgggungnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn   60
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn  120
nnnnnnnnnn nnnncugaga nnnnnnnnnn aauaccggnc gaacuugauc uggauaauac  180
cagcgaaagg auuggcuucu ug                                          202
```

<210> 23
<211> 190
<212> RNA
<213> Aspergillus oryzaa

<220>
<221> misc_feature
<222> (12)...(137)
<223> n = g, a, c or t/u

<400> 23
cuuuggcgug gngccggugn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 60
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120
nncugagann nnnnnnnuua uacggcuaaa acuugaucug gauaauacca gcgaaagggu 180
caugccuucu   190

<210> 24
<211> 150
<212> RNA
<213> Fusarium oxyaporum

<220>
<221> misc_feature
<222> (12)...(117)
<223> n = g, a, c or t/u

<400> 24
aucaugcaug angccggugn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 60
nnnnnnnnnn nnnnnnnnnn nncugagann nnnnnnnuua uacggcnaaa acuugaucug 120
gauaauacca gcgaaaggau caugucaucu   150

<210> 25
<211> 156
<212> RNA
<213> Fusarium solani

<220>
<221> misc_feature
<222> (12)...(113)
<223> n = g, a, c or t/u

<400> 25
aucaugcaug angccggugn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 60
nnnnnnnnnn nnnnnnnnnn nnnnnnnncu gagannnnnn nnnuuauacg gcngaaacuu 120
gaucuggaua auaccagcga aaggaucaug cucucc   156

<210> 26
<211> 133
<212> RNA
<213> Arabidopsis thaliana

<220>
<221> misc_feature
<222> (12)...(81)
<223> n = g, a, c or t/u

```
<400> 26
gcaaaagcac cnaggggugn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 60
nnnnncugag annnnnnnnn naagucccuu ugaaccugaa caggguaaug ccugcgcagg 120
gagugugcag uuu                                                    133


<210> 27
<211> 140
<212> RNA
<213> Poa secunda

<220>
<221> misc_feature
<222> (12)...(88)
<223> n = g, a, c or t/u

<400> 27
aaaguugcac cnaggggugn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 60
nnnnnnnnnn nncugagann nnnnnnnnaa gucccuuuga accugaacag gauaaugccu 120
gcguagggag ugugcauuuc                                             140


<210> 28
<211> 140
<212> RNA
<213> Oryza sativa

<220>
<221> misc_feature
<222> (12)...(88)
<223> n = g, a, c or t/u

<400> 28
aaaguugcac cnaggggugn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 60
nnnnnnnnnn nncugagann nnnnnnnnaa gucccuuuga accugaacag gauaaugccu 120.
gcgaagggag ugugcauuuc                                             140


<210> 29
<211> 214
<212> RNA
<213> Bacillus anthracis

<220>
<221> misc_feature
<222> (26)...(190)
<223> n = g, a, c or t/u

<400> 29
cggugaggua gagguugcag ucauunaagn aguannucau uucugnnngn agnnauagug 60
nnnnnaugau ganaggaaug anngaaagga augaunnugc cgaaguaagu uguguccacc 120
aunnngcaca cuugcugggu cugcauuuaa uaanngugca gaanncuguc acaaacguuu 180
nnnnnnnnnn cguuugugga gagcuaucga gagg                             214


<210> 30
<211> 214
<212> RNA
<213> Bacillus anthracis
```

```
<220>
<221> misc_feature
<222> (25)...(191)
<223> n = g, a, c or t/u

<400> 30
cucaaaggua gaggccgcga uaggnnaaag aguannagcu auggnnnngn agnnuuaaug 60
nnnnnaannn nnnnnnnggu unngaaaggg acuaunnugc cgaaauauaa gaauaaccau 120
nncuuauuca uauauuggga cugcauunnn gaauaaaugu aguancuguc auaagauuua 180
nnnnnnnnnn nuuuuaugga gagcuauuug gaga                             214


<210> 31
<211> 214
<212> RNA
<213> Bacillus anthracis

<220>
<221> misc_feature
<222> (26)...(165)
<223> n = g, a, c or t/u

<400> 31
cgaugaggua gagguugcga cuuuunaagn aguannaaac ggacnnnngn agauacgaga 60
annnngucua aganuccguu unngaaagga aaagunnugc cgaaguuuau auuucuucuc 120
unnggaaaua ugagcugggg cuguguucnnu gaaanggaac agaancuguc acguuuacaa 180
aauuaccgug uaaacguggg gugcuaucuu aacg                             214


<210> 32
<211> 214
<212> RNA
<213> Bacillus halodurans

<220>
<221> misc_feature
<222> (16)...(189)
<223> n = g, a, c or t/u

<400> 32
agugaggaua gaggungcaa aaaccnaagn aguanncaca auunnnnggn agnngagaau 60
gaganuccgu ugagaauugu gnngaaaggg gaannuuugc cgaagcugga agaaucucau 120
nnnnguucug aaggcugguu cuguauunnn aaauaaauac agaancuguc auauagcgga 180
ugunnnnnnu gcuauaugga gggcuaucuc acgc                             214


<210> 33
<211> 214
<212> RNA
<213> Bacillus halodurans

<220>
<221> misc_feature
<222> (16)...(187)
<223> n = g, a, c or t/u
```

<400> 33
agugauggua gaggungcga aaaccnaagn aguacnacag ucnnnugagn agnaaaugag 60
aaucguugac nnnnngacug uuggaaaggg ggannuucgc cgaagugcag aucggggcuc 120
aunucccauu ugcgcuggac cuauguunnn gaauaagcau agggncuguc acaacacuag 180
ccccaancua gugcugugga gaacuaucuc acgu 214

<210> 34
<211> 214
<212> RNA
<213> Bacillus halodurans

<220>
<221> misc_feature
<222> (16)...(191)
<223> n = g, a, c or t/u

<400> 34
agaugggggua gaggangcgg guuuunaagn aguaangcgc uugnnnnngn aggaugacaa 60
nnnnncgagg annnuaagcg cncgaaagga aaanncucgc cgaagcggaa gaugagucaa 120
gnnncgucuu cuugcugggg uugcauunnn gaauaaaugu aacancuguc acagcagaun 180
nnnnnnnnnn nugcugugga gaacuacuaa cguu 214

<210> 35
<211> 214
<212> RNA
<213> Bacillus subtilis

<220>
<221> misc_feature
<222> (16)...(191)
<223> n = g, a, c or t/u

<400> 35
ggugaagaua gaggungcga acuucnaagn aguaungccu uunnnnnggn agnaaagaug 60
gannnuucug ugaanaaagg cnugaaaggg gagcgnucgc cgaagcaaau aaaaccccau 120
cnngguauua uuugcuggcc gugcauunnn gaauaaaugu aaggncuguc aagaaaucau 180
nnnnnnnnnn nuuucuugga gggcuaucuc guug 214

<210> 36
<211> 214
<212> RNA
<213> Clostridium acetobutylicum

<220>
<221> misc_feature
<222> (16)...(165)
<223> n = g, a, c or t/u

<400> 36
accuuuugua gaggungcuu uaagucaagn aguaanccgu uugnnnnngn agnnuuggca 60
nnnnnaacuu aganugaacg gnuaaaaggg gcuuuunagc cgaagcauuu agauuggcan 120
nnnngauuua uuugcuggcu uuucauannn caacauauga auggncuguc acuuuauuag 180
uuaguuauua gguaagugga gcgcuacaag guac 214

```
<210> 37
<211> 215
<212> RNA
<213> Clostridium perfringens

<220>
<221> misc_feature
<222> (16)...(193)
<223> n = g, a, c or t/u

<400> 37
gaccaaagua gaggungccg uaauunaagn aguannguca uannnnnagu agnncugaca 60
nnnnnagnnn nnnnnnuaug aunngaaagg gauunnaugg ccgaagagau auuaauggug 120
nnnnnauuaa uauuucuggg uauauguaun nnaaunaugc auauaacugu cacuuugaaa 180
nnnnnnnnnn nnnaaagugg agugcuacaa gguac 215


<210> 38
<211> 214
<212> RNA
<213> Clostridium perfringens

<220>
<221> misc_feature
<222> (16)...(192)
<223> n = g, a, c or t/u

<400> 38
aacugagaua gaggcngcga ugauunaaun aguannucuu ugcnnnnagn agnnguaagc 60
annnnauuga annnngcaaa gnugaaagga ugannaucgc cgaaaccauu agaagaggcu 120
uuaauucuau uagguugggg uugcauannn gaauauaugu aacancuguc acaaauuaun 180
nnnnnnnnnn nnuuuguggu gugcuaucau gaaa 214


<210> 39
<211> 214
<212> RNA
<213> Clostridium perfringens

<220>
<221> misc_feature
<222> (16)...(194)
<223> n = g, a, c or t/u

<400> 39
aaaagaggua gaggcngcga gaaucnaagn auuanncuaa aaunnnnggn agnnuuaagu 60
nnnnnagcgu agaaguuuua gnngaaaggg auuaunncgc cgaaguuuuu ggcuaauacu 120
uuaanggcua aaugcugggg uuguauannn gaauauauac aacancuguc acaaaannnn 180
nnnnnnnnnn nnnnugugga gagcuaucau cuua 214


<210> 40
<211> 225
<212> RNA
<213> Escherichia coli

<220>
<221> misc_feature
<222> (16)...(204)
<223> n = g, a, c or t/u
```

14

<400> 40
caggccagaa gaggcngcgu ugcccnannn aguaacggug uugnnnnngn agnngagcca 60
gnnnnuccug uganuaacac cnnnnnuggg ggugcaucgc cgaggugauu gaacggcugg 120
ccanncguuc aucaucggcu acaggggncu gaaunccccu gggnnuuguc accannnnnn 180
nnnnnnnnnn nnnnnnnnnn nnnnuggugg agcacuucug gguga 225

<210> 41
<211> 214
<212> RNA
<213> Haemophilus influenzae

<220>
<221> misc_feature
<222> (16)...(191)
<223> n = g, a, c or t/u

<400> 41
uacaaaagua gaggcngcaa uuauunauan aguannuuuu uucnnnnagn agnnuggaua 60
annnncgaag aanngaaaaa anngaaagga auagunnugc cgaaaucaaa uaaaagucgn 120
nnnnuuuugu uugguuggug gcgugcucnn gaaangggc gacancuguc auaguuuuuc 180
ugauunnnnn naacuaugga gugcuacggu uguu 214

<210> 42
<211> 215
<212> RNA
<213> Oceanobacillus iheyensis

<220>
<221> misc_feature
<222> (16)...(192)
<223> n = g, a, c or t/u

<400> 42
guuuuggaua gaggungcgg agaccnaucn aguannuaua cgcnnnngga agnnggaaau 60
gagnnccnnn nnnnngcgua ugnngaaagg ggaannucug ccgaagcgag ugaaauacuc 120
auucauuann acucguuggu gcugcuauun ngaacaaaua acaguccugu cauauaggag 180
annnnnnnnn nncuauaugg agggcuaucg agcug 215

<210> 43
<211> 214
<212> RNA
<213> Oceanobacillus iheyensis

<220>
<221> misc_feature
<222> (16)...(192)
<223> n = g, a, c or t/u

<400> 43
ucgguggua gaggangcau acaacnauun aguannaucg acnnnnaagn aggaugacaa 60
nnnnncgaug auannguugg unnggaaggg uuguunnugc cgaagcauaa uaagggucag 120
annncuuauu auugcgggua caucuuunnn gaauaaaaga ugcancuguc augcaaaauu 180
aagnnnnnnn nnugcaugga gaacuacuga ucga 214

<210> 44
<211> 214
<212> RNA
<213> Pasteurella multocida

<220>
<221> misc_feature
<222> (16)...(192)
<223> n = g, a, c or t/u

<400> 44
uacuugugua gaggangcga ucacunauan aguannuuuu uucunnnngn agnnuggaua 60
annnncgaag annggaaaaa gnngaaagga gugacnncgc cgaaaucaau ugaaagucan 120
nnnnuuuuga uugguuggug gcguauucnn gaaanggaac gucanuuguc auagucuuuu 180
uuaannnnnn nnacuaugga gcgcuacugg uugg   214

<210> 45
<211> 214
<212> RNA
<213> Staphylococcus aureus

<220>
<221> misc_feature
<222> (16)...(191)
<223> n = g, a, c or t/u

<400> 45
auauuuugau gaggcngcau caaucnaugn aguannaagu uuannnnngn aunnuacugu 60
cugcnuaaca gcnnugaauu unngaaaggg ugcnngaugc cgaagcgauu auaauagcan 120
nnnguuauaa uuuguuggac uuuuuggunn uaagagcuga gagunuuguc auuauuuaaa 180
nnnnnnnnnn naauaaugga gugcaucacu ugua   214

<210> 46
<211> 216
<212> RNA
<213> Staphylococcus aureus

<220>
<221> misc_feature
<222> (26)...(196)
<223> n = g, a, c or t/u

<400> 46
aauugaguua gagguugcau guuuanauun aguannacuu gunnnncaga agnnuauuua 60
uggnnuannn nnnnnnnaca agunngaaag guaaagnnau gccgaaauag auauaaacca 120
uaaannnuua uaucuauugg gacaguuuun ncgaauagga acuguancug ucacagaann 180
nnnnnnnnnn nnnnnnugug augugcuacc uuauau   216

<210> 47
<211> 214
<212> RNA
<213> Staphylococcus epidermidis

<220>
<221> misc_feature
<222> (16)...(192)
<223> n = g, a, c or t/u

16

<400> 47
agauuuugau gaggcngcau caaucnaugn aguannaacu uuannnnngn aunnuauuug 60
ucugcuaaca auuauagagu unnaaaaggg uganngaugc cgaaaugauu cauaauagca 120
nnnguuauga aucguuggac uuaauggunn uaagagcuau aagunuuguc auuauuauua 180
annnnnnnnn nnauaaugga gugcaucacu ugua 214

<210> 48
<211> 216
<212> RNA
<213> Staphylococcus epidermidis

<220>
<221> misc_feature
<222> (26)...(196)
<223> n = g, a, c or t/u

<400> 48
aauagaguua gagguugcau uauuanaugn acuannacuu aunnnncaga agnnucguau 60
ggnnngannn nnnnnnnaua agunngaaag guaauaaunn gccgaaauga uguuauuucc 120
aunnaaauua gcauuguugg dacaacuuun ncgaauagaa guuguancug ucacuuuann 180
nnnnnnnnnn nnnnnnugug augugcuacc uuauau 216

<210> 49
<211> 225
<212> RNA
<213> Shigella flexneri

<220>
<221> misc_feature
<222> (16)...(204)
<223> n = g, a, c or t/u

<400> 49
caggccagaa gaggcngcgu ugcccnannn aguaacggug uugnnnnngn agnngagcca 60
gnnnnuccug uganuaacac cnnnugaggg ggugcaucgc cgaggugauu gaacggcugg 120
ccanncguuc aucaucggcu acaggggncu gaaunccccu gggnnuuguc accannnnnn 180
nnnnnnnnnn nnnnnnnnnn nnnnuggugg agcacuucug gguga 225

<210> 50
<211> 214
<212> RNA
<213> Shewanella oneidensis

<220>
<221> misc_feature
<222> (16)...(194)
<223> n = g, a, c or t/u

<400> 50
aggaacagaa gaggangcgu uaacunannn gguannguca aucangaggn agcacaaacu 60
ccagcgannn nnnugauuga unnngaggga ganuuagcgc cgaggcauag augugguugc 120
ugnncauguu uaugucgguc gcuuaggncu gaaunccuaa cgannuuguc accuguaauu 180
nnnnnnnnnn nnnnggugga gagcuucugg ugac 214

<210> 51
<211> 214
<212> RNA
<213> Shewanella oneidensis

<220>
<221> misc_feature
<222> (16)...(192)
<223> n = g, a, c or t/u

<400> 51
ccuuuaagua gaggcngcgc ugccunaugn acuanncuug ugcgnnnngn agnnggugau 60
gnnnnccgca ganuguacaa gnngaaagga gunncagcgc cgaaguagcc aggucaucaa 120
nnnnnnaccg agcgcugguu uugcauncaa auagngugca aganncugcc auagucaucc 180
nnnnnnnnnn nnacuaugga gcgcuaccug aagg 214

<210> 52
<211> 218
<212> RNA
<213> Thermatoga maritima

<220>
<221> misc_feature
<222> (16)...(194)
<223> n = g, a, c or t/u

<400> 52
ugacccgacg gaggcngcgc ccgagnaugn aguannggcu gucccnnnnn nngnaggaau 60
cgnnnnnnnn nnnnnnggga cggcunngaa aggcgagggn ncgccgaagg gugcagaguu 120
ccucccngcu cugcaugccu ggggguaugg gnnngaauac ccauaccanc ugucacggag 180
gucnnnnnnn nnnnucuccg uggagagccg aucggguc 218

<210> 53
<211> 215
<212> RNA
<213> Thermoanaerbacter tengcongensis

<220>
<221> misc_feature
<222> (16)...(188)
<223> n = g, a, c or t/u

<400> 53
aggugaggua gaggcngcgg gucaucaagn aguannacau gccnnnnagn agnnguguua 60
nnnnnagnnn nnnnnnnggu gugunngaaa ggggugnncc cgccgaagcg cguaaacuuc 120
cuuanagguu uacgcagcug ggcuaugccn nngaacaguu auaggancug ucacucaagg 180
cuccccangg ccuucagugg agagcuaucu cgcua 215

<210> 54
<211> 218
<212> RNA
<213> Thermoanaerobacter tengcongensis

<220>
<221> misc_feature
<222> (16)...(195)
<223> n = g, a, c or t/u

<400> 54

cgcauaaaua gaggangcug ccaagcaunn nguauuuggc gagnnnnnnn nnngaagaac 60
cuccaauann nnnnnnnnnc ucgcugnaag aagguuuggc nnugccgaaa gggugagcuu 120
guucunnnug agcucauccu uggugguaaa cnnnacaaan guuuaccanc ugucauggga 180
ccnnnnnnnn nnnnnuccca ugaagcgcua uuuaugca 218

<210> 55
<211> 214
<212> RNA
<213> Vibrio cholerae

<220>
<221> misc_feature
<222> (16)...(192)
<223> n = g, a, c or t/u

<400> 55

ucuagcagaa gaggangcac ugcccnaggc agnauguuuu gugnnnnngn agccucaacu 60
ccaannnnnn nnnnuacaga acauucaggg ggaguagugc cgaggugaau caaaguugun 120
nnggcuuugg uuuaucgguu gaacgggncu gaauncccuu caanncuguc aucagcucga 180
aunnnnnnnn nncugaugaa gagcuucuga ggga 214

<210> 56
<211> 214
<212> RNA
<213> Vibrio cholerae

<220>
<221> misc_feature
<222> (16)...(192)
<223> n = g, a, c or t/u

<400> 56

uuucgccgua gaggangcgg uuacgnaaan aguannucca caguunnngn ggngugaugc 60
nnnnncaaug nnaauugugg annaaaaggc guunngccgc cgaagucaac uugcccaunn 120
nncaacgcag uuggcugggg uuacauunnn caauaggugu aacancugcc auagucuaua 180
uuguuguuaa nnacuaugga gcgcuacugu aggg 214

<210> 57
<211> 214
<212> RNA
<213> Vibrio cholerae

<220>
<221> misc_feature
<222> (16)...(193)
<223> n = g, a, c or t/u

<400> 57

ccuuuaagua gaggcngcgc uguucnaugn agucgnccag ucnnnnnngu agnguugacc 60
ccnnngaugn nnnaugacug gnuuaaaggg unnacagcgc cgaagugauc guugcgucau 120
nnnnncaacg uucgcugggc cagcauunnn gaacaaaugc cggancugcc auaguguguu 180
gunnnnnnnn nnncuaugga gcgcuaccuu gaag 214

<210> 58
<211> 214
<212> RNA
<213> Vibrio vulnificus

<220>
<221> misc_feature
<222> (16)...(190)
<223> n = g, a, c or t/u

<400> 58
uuuugcagaa gaggangcac ugcccnaggc agnauguuuu gugnnnnngn agccgcaacu 60
ccaannnnnn nnnncacaga acauucaggg ggaguagugc cgagguagau caaaauugca 120
nnngauuuga ucugucgguu gacuuggguu gaguncccau caanncuguc aucagcucan 180
nnnnnnnnnn gccugaugaa gagcuucuga gaug 214

<210> 59
<211> 214
<212> RNA
<213> Vibrio vulnificus

<220>
<221> misc_feature
<222> (16)...(192)
<223> n = g, a, c or t/u

<400> 59
uaucgacgua gaggcngcaa ugguanaagn aguannacua uuauunnngn ggnngugaun 60
nnnnngccaa ugaauaauag unngaaaggu aunccauugc cgaagugaau ugcauaucaa 120
annnnngcag uuugcugggg uugcauccnn gaaanggaac aacancugcc auaguauuua 180
auguauannn nnacuaugga gcgcuacugu aggu 214

<210> 60
<211> 136
<212> RNA
<213> Bacillus subtilis

<220>
<221> misc_feature
<222> (12)...(131)
<223> n = g, a, c or t/u

<220>
<221> misc_feature
<222> 1, 25, 33, 37, 40, 43, 82, 106, 109, 125
<223> n = a variable number of any nucleotide

<220>
<221> misc_feature
<222> 2, 11, 52, 53, 70, 92, 132
<223> r = a or g

<220>
<221> misc_feature
<222> 3, 135
<223> w = a or t/u

```
<220>
<221> misc_feature
<222> 64, 72, 93, 119, 136
<223> y = c or t/u

<400> 60
nrwagagggc rnnnnnnann aguannnnnn nnngagnnnn nnnnnnnnnn nrraggnnnn 60
nnnygccgar gynnnnnnnn nnnnnnnnnn nryuggnnnn nnnnnnaann nnnnnnnnyu 120
gucanuggag nrcuwy                                                136

<210> 61
<211> 237
<212> RNA
<213> Bacillus subtilis

<400> 61
aauuucauag uuagaucgug uuauauggug aagauagagg ugcgaacuuc aagaguaugc 60
cuuuggagaa agauggauuc ugugaaaaag gcugaaaggg gagcgucgcc gaagcaaaua 120
aaaccccauc gguauuauuu gcuggccgug cauugaauaa auguaaggcu gucaagaaau 180
cauuuucuug gagggcuauc ucguuguuca uaaucauuua ugaugauuaa uugauaa    237

<210> 62
<211> 239
<212> RNA
<213> Bacillus subtilis

<220>
<221> misc_feature
<222> 11
<223> r = a or g

<220>
<221> misc_feature
<222> 78, 117, 177, 210, 232
<223> s = g or c

<220>
<221> misc_feature
<222> 10
<223> v = g, c or a

<220>
<221> misc_feature
<222> 123, 176, 211, 231
<223> w = a or t/u

<220>
<221> misc_feature
<222> 167
<223> y = c or t/u

<400> 62
gaagauagav rugcgaacuu caagaguaug ccuuuggaga aagauggauu cugugaaaaa 60
ggcugaaagg ggagcgusgc cgaagcaaau aaaaccccau cgguauuauu ugcuggscgu 120
gcwuugaaua aauguaaggc ugucaagaaa ucauuuucuu ggagggyuau cucguwsuuc 180
auaaucauuu augaugauua auugauaags waugagagua uuccucucau wscuuuuuu  239
```

21

<210> 63
<211> 82
<212> RNA
<213> Bacillus subtilis

<220>
<221> misc_feature
<222> (31)...(68)
<223> n = g, a, c or t/u

<400> 63
caucccuuuc guauauacuu ggagauaagg nuccaggagu uucuaccaga ucaccguaaa 60
ugaucugnac uaugaaggug ga   82

<210> 64
<211> 82
<212> RNA
<213> Bacillus subtilis

<220>
<221> misc_feature
<222> (31)...(68)
<223> n = g, a, c or t/u

<400> 64
acaucauuuc guauaauggc aggaauaggg nccugcgagu uucuaccaag cuaccguaaa 60
uagcuugnac uacgaaaaua au   82

<210> 65
<211> 82
<212> RNA
<213> Bacillus halodurans

<220>
<221> misc_feature
<222> (31)...(68)
<223> n = g, a, c or t/u

<400> 65
aaaguaccuc auauaaucuu gggaauaugg ncccaaaagu uucuaccugc ugaccguaaa 60
ucggcggnac uaugggggaaa ga   82

<210> 66
<211> 82
<212> RNA
<213> Bacillus halodurans

<220>
<221> misc_feature
<222> (16)...(67)
<223> n = g, a, c or t/u

<400> 66
aacacucuuc guauanccu cucaauaugg ngaugagggu cucuacaggu annccguaaa 60
uaccunnagc uacgaaaaga au   82

```
<210> 67
<211> 82
<212> RNA
<213> Bacillus halodurans

<220>
<221> misc_feature
<222> (31)...(68)
<223> n = g, a, c or t/u

<400> 67
aaaagcacuc guauaaucgc gggaauaggg ncccgcaagu uucuaccagg cugccguaaa 60
cagccugnac uacgagugau ac                                       82

<210> 68
<211> 82
<212> RNA
<213> Bacillus subtilis

<220>
<221> misc_feature
<222> (31)...(68)
<223> n = g, a, c or t/u

<400> 68
agaugaauuc guauaaucgc gggaauaugg ncucgcaagu cucuaccaag cuaccguaaa 60
uggcuugnac uacguaaaca uu                                       82

<210> 69
<211> 82
<212> RNA
<213> Bacillus subtilis

<220>
<221> misc_feature
<222> (31)...(68)
<223> n = g, a, c or t/u

<400> 69
acacgaccuc auauaaucuu gggaauaugg ncccauaagu uucuacccgg caaccguaaa 60
uugccggnac uaugcaggaa ag                                       82

<210> 70
<211> 82
<212> RNA
<213> Bacillus subtillus

<220>
<221> misc_feature
<222> (31)...(68)
<223> n = g, a, c or t/u

<400> 70
aggaacacuc auauaaucgc guggauaugg ncacgcaagu uucuaccggg canccguaaa 60
nuguccgnac uaugggugag ca                                       82
```

```
<210> 71
<211> 82
<212> RNA
<213> Bacillus subtilis

<220>
<221> misc_feature
<222> (31)...(68)
<223> n = g, a, c or t/u

<400> 71
agacauucuu guauaugauc aguaauaugg nucugauugu uucuaccuag uaaccguaaa 60
aaacuagnac uacaagaaag uu                                        82

<210> 72
<211> 82
<212> RNA
<213> Bacillus subtilis

<220>
<221> misc_feature
<222> (31)...(68)
<223> n = g, a, c or t/u

<400> 72
auuaucacuu guauaaccuc aauaauaugg nuuugagggu gucuaccagg aanccguaaa 60
auccugnnau uacaaaauuu gu                                        82

<210> 73
<211> 82
<212> RNA
<213> Clostridium acetobutylicum

<220>
<221> misc_feature
<222> (16)...(68)
<223> n = g, a, c or t/u

<400> 73
uaaauuucuc guauancacc gguaauaugg nuccggaagu uucuaccugc ugnccauaaa 60
nuagcagnac uacggggugu ua                                        82

<210> 74
<211> 82
<212> RNA
<213> Clostridium acetobutylicum

<220>
<221> misc_feature
<222> (31)...(68)
<223> n = g, a, c or t/u

<400> 74
cauauuaccc guauaugcuu agaaauaugg nucuaagcgu cucuaccgga cugccguaaa 60
uugucugnac uaugggguu ua                                         82
```

<210> 75
<211> 82
<212> RNA
<213> Clostridium acetobutylicum

<220>
<221> misc_feature
<222> (16)...(68)
<223> n = g, a, c or t/u

<400> 75
aguuuaacuc auauanuuuc cugaauaugg nncaggaugu uucuacaagg aanccuuaaa 60
nuuucuunac uaugagugau uu   82

<210> 76
<211> 82
<212> RNA
<213> Clostridium perfringens

<220>
<221> misc_feature
<222> (31)...(68)
<223> n = g, a, c or t/u

<400> 76
uaaguauauc guauaugcuc gacgauaugg nguugagugu uucuacuagg aggccguaaa 60
cauccuanac uacgaauaua ua   82

<210> 77
<211> 82
<212> RNA
<213> Clostridium perfringens

<220>
<221> misc_feature
<222> (31)...(68)
<223> n = g, a c or t/u

<400> 77
auuuuaacuc guauauaauc gguaauaugg nuccgaaagu uucuaccugc uaaccguaaa 60
auagcagnac uacgaggagu ug   82

<210> 78
<211> 82
<212> RNA
<213> Clostridium perfringens

<220>
<221> misc_feature
<222> (16)...(68)
<223> n = g, a, c or t/u

<400> 78
aaacaaacuc guauanagcu uugaauaagg nncaaggcgu uucuaccgga aanccuuaaa 60
nuuuccgnuc uaugagugaa uu   82

```
<210> 79
<211> 82
<212> RNA
<213> Clostridium perfringens

<220>
<221> misc_feature
<222> (31)...(68)
<223> n = g, a, c or t/u

<400> 79
auuuugcuuc guauaacucu aaugauaugg nauuagaggu cucuaccaag aanccgagaa  60
nuucuugnau uacgaagaaa gc                                          82

<210> 80
<211> 82
<212> RNA
<213> Fusobacterium nucleatum

<220>
<221> misc_feature
<222> (16)...(61)
<223> n = g, a, c or t/u

<400> 80
auaaaaauuc guauanagcc uaauauaugg nnaagggugu cccuacgguu aanccauaaa  60
nuuaaccagc uacgaaaaau gu                                          82

<210> 81
<211> 82
<212> RNA
<213> Lactococcus lactis

<220>
<221> misc_feature
<222> (16)...(68)
<223> n = g, a, c or t/u

<400> 81
acaaucuuau uuauannncc uaggauaugg nncugggcgu uucuaccucg uanccguaaa  60
nugcgagnac aauaaggaaa uu                                          82

<210> 82
<211> 82
<212> RNA
<213> Listeria monocytogenes

<220>
<221> misc_feature
<222> (31)...(68)
<223> n = g, a, c or t/u

<400> 82
uaauauaguc guauaaguuc gguaauaugg naccguucgu uucuaccagg caaccguaaa  60
augccagngc uacgagcuau ug                                          82
```

<210> 83
<211> 82
<212> RNA
<213> Listeria monocytogenes

<220>
<221> misc_feature
<222> (27)...(68)
<223> n = g, a, c or t/u

<400> 83
cgaaauacuu guauaauagu ugcgaunugg ngcgacgagu uucuaccugg uuaccguaaa 60
uaaccggnac uaugaguagu uu   82

<210> 84
<211> 82
<212> RNA
<213> Oceanobacillus iheyensis

<220>
<221> misc_feature
<222> (31)...(68)
<223> n = g, a c or t/u

<400> 84
aaugccuuuc guauauccuc gauaauaugg nuucgaaagu aucuaccggg ucaccguaaa 60
ugaucugnac uaugaaggca ga   82

<210> 85
<211> 82
<212> RNA
<213> Oceanobacillus iheyensis

<220>
<221> misc_feature
<222> (31)...(68)
<223> n = g, a, c or t/u

<400> 85
auagaaaugc guauaauuaa ggggauaugg nncccacagu uucuaccaga ccaccguaaa 60
ugguuugnac uacgcaguaa uu   82

<210> 86
<211> 82
<212> RNA
<213> Oceanobacillus iheyensis

<220>
<221> misc_feature
<222> (31)...(68)
<223> n = g, a, c or t/u

<400> 86
aaugaaccuc auauaaauuu gagaauaugg ncucagaagu uucuacccag canccguaaa 60
uggcuggnac uaugagggaa ga   82

```
<210> 87
<211> 82
<212> RNA
<213> Oceanobacillus iheyensis

<220>
<221> misc_feature
<222> (31)...(68)
<223> n = g, a, c or t/u

<400> 87
uaguuuuuuc auauaaucgc ggggauaugg nccugcaagu uucuaccggu uuaccguaaa    60
ugaaccgnac uauggaaaag cg                                            82


<210> 88
<211> 82
<212> RNA
<213> Staphylococcus aureus

<220>
<221> misc_feature
<222> 68
<223> n = g, a, c or t/u

<400> 88
acauaaacuc auauaaucua aagaauaugg cuuuagaagu uucuaccaug uugccuugaa    60
cgacaugnac uaugaguaac aa                                            82


<210> 89
<211> 82
<212> RNA
<213> Staphylococcus epidermidis

<220>
<221> misc_feature
<222> 68
<223> n = g, a, c or t/u

<400> 89
uauaugacuc auauaaucua gagaauaugg cuuuagaagu uucuaccgug ucgccauaaa    60
cgacacgnac uaugaguaac aa                                            82


<210> 90
<211> 82
<212> RNA
<213> Streptococcus agalactiae

<220>
<221> misc_feature
<222> (16)...(67)
<223> n = g, a, c or t/u

<400> 90
ugauuuacuu auuuanugcu gaggaunugg nncuuagcgu cucuacaaga canccgunaa    60
nugucunaac aauaaguaag cu                                            82
```

<210> 91
<211> 82
<212> RNA
<213> Streptococcus pyogenes

<220>
<221> misc_feature
<222> (16)...(67)
<223> n = g, a, c or t/u

<400> 91
ugacauacuu auuuanugcu gugaaunugg nncgcagcgu cucuacaaga canccnuuaa 60
nugucunaac aauaaguaag cu   82

<210> 92
<211> 82
<212> RNA
<213> Streptococcus pneumoniae

<220>
<221> misc_feature
<222> (16)...(67)
<223> n = g, a, c or t/u

<400> 92
cguuuuacuu guuuanuguc gugaaunugg nncacgacgu uucuacaagg ugnccnggaa 60
ncaccunaac aauaaguaag uc   82

<210> 93
<211> 82
<212> RNA
<213> Thermoanaerobacter tengcogensis

<220>
<221> misc_feature
<222> (31)...(68)
<223> n = g, a, c or t/u

<400> 93
agaagcacuc auauaauccc gagaauaugg ncucgggagu cucuaccgaa caaccguaaa 60
uuguucgnac uaugagugaa ag   82

<210> 94
<211> 82
<212> RNA
<213> Vibrio vulnificus

<220>
<221> misc_feature
<222> (31)...(68)
<223> n = g, a, c or t/u

<400> 94
ucaacgcuuc auauaauccu aaugauaugg nuuugggagu uucuaccaag agnccuuaaa 60
ncucuugnau uaugaagucu gu   82

<210> 95
<211> 69
<212> RNA
<213> Bacillus subtilis

<220>
<221> misc_feature
<222> (1)...(69)
<223> n = g, a, c or t/u

<220>
<221> misc_feature
<222> 5, 18, 67
<223> r = a or g

<220>
<221> misc_feature
<222> 65
<223> y = c or t/u

<400> 95
nnucruauan nnnnnnnrau auggnnnnnn ngunucuacc nnnnnnccgu aaannnnnng 60
acuaygrnn   69

<210> 96
<211> 201
<212> RNA
<213> Bacillus subtilis

<400> 96
gggaauauaa uaggaacacu cauauaaucg cguggauaug gcacgcaagu uucuaccggg 60
caccguaaau guccgacuau gggugagcaa uggaaccgca cguguacggu uuuuugugau 120
aucagcauug cuugcucuuu auuugagcgg gcaaugcuuu uuuuauucuc auaacggagg 180
uagacaggau ggauccacug a   201

<210> 97
<211> 93
<212> RNA
<213> Bacillus subtilis

<220>
<221> misc_feature
<222> 20
<223> k = g or t/u

<220>
<221> misc_feature
<222> 19, 32, 44, 58, 59, 73, 74, 82, 83
<223> s = g or c

<220>
<221> misc_feature
<222> 18, 25, 26, 33, 43, 84
<223> w = a or t/u

<400> 97
gggaauauaa uaggaacwsk cauawwaucg cswggauaug gcwsgcaagu uucuaccssg 60
caccguaaau gussgacuau gsswgagcaa ugg 93

<210> 98
<211> 87
<212> RNA
<213> Bacillus subtilis

<220>
<221> misc_feature
<222> 52, 73
<223> n = a variable number of any nucleotide

<221> misc_feature
<222> 8, 13, 14, 26, 32, 33, 37, 41, 42, 50, 51, 54, 55, 63, 67
<223> n = g, a, c or t/u

<220>
<221> misc_feature
<222> 18, 38, 44, 53, 68, 71, 72, 78, 79, 84, 87
<223> r = a or g

<220>
<221> misc_feature
<222> 1, 17, 25, 34, 60, 74, 75
<223> y = c or t/u

<400> 98
ycuuaucnag agnnggyrga gggaynggcc cnnyganrcc nncrgcaacn nnrnngugcy 60
aanuccnrca rrnyyugrra gauragr 87

<210> 99
<211> 251
<212> RNA
<213> Bacillus subtilis

<220>
<221> misc_feature
<222> (152)...(251)
<223> n = g, a, c or t/u

<400> 99
ggacuuccug acacgaaaau uucauauccg uucuuaucaa gagaagcaga gggacuggcc 60
cgacgaagcu ucagcaaccg guguaauggc gaucagccau gaccaaggug cuaaauccag 120
caagcucgaa cagcuuggaa gauaagaaga gnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240
nnnnnnnnnn n 251

<210> 100
<211> 124
<212> RNA
<213> Bacillus subtilis

```
<220>
<221> misc_feature
<222> 106
<223> k = g or t/u

<220>
<221> misc_feature
<222> 13, 14, 46, 47
<223> r = a or g

<220>
<221> misc_feature
<222> 19, 42, 97
<223> s = g or c

<220>
<221> misc_feature
<222> 98
<223> v = g, c or a

<220>
<221> misc_feature
<222> 8, 9, 17, 18, 43, 44, 116, 117
<223> w = a or t/u

<220>
<221> misc_feature
<222> 84, 85
<223> y = c or t/u

<400> 100
ggguucuwwu carragwwsc agagggacug gcccgacgaa gswwcrrcaa ccgguguaau 60
ggcgaucagc caugaccaag gugyyaaauc cagcaasvuc gaacakcuug gaagawwaga 120
agag                                                                124

<210> 101
<211> 245
<212> RNA
<213> Bacillus subtilis

<220>
<221> misc_feature
<222> (186)...(245)
<223> n = g, a, c or t/u

<220>
<221> misc_feature
<222> 149, 160, 177
<223> s = g or c

<220>
<221> misc_feature
<222> 148, 161, 176
<223> w = a or t/u
```

<400> 101
ggucagaaaa auugaaaucg auauuucuua ucgugagagg uggagggacu ggcccuuaga 60
aaccucagca accggcuugu uuugcauuug caaagcgcca aggugcuaaa uccagcaagc 120
guuuuuuaug cuuggaagau aagaagawsc guuaaacccs wucuucuuau gaagawsggg 180
uuuuunnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240
nnnnn 245

<210> 102
<211> 167
<212> RNA
<213> Bacillus subtilis

<400> 102
gguacaaucu aaaaacuuau caagagcggc ugagggacug gaccuaugaa gcccggcaac 60
cugcauaguu uguaaggugc uacuuccagc aaaaugaauu ccauuuugaa agauaagggc 120
ugcaugcugu uccugucuuu cuuuccgccg gauugaaagu uuuuuuu 167

<210> 103
<211> 160
<212> RNA
<213> Bacillus anthracis

<400> 103
ggagcuuauc aagagaagcg gagggaacug gcccggcgaa gcucggcaac cugcuuauag 60
aaagcaaggu gcuaaaucca gcaaaaugga auccauuuug aaagauaagg uaaaauauau 120
uaccgaacag ucuuuucgaa augggaaaga uuuuuuuuau 160

<210> 104
<211> 80
<212> RNA
<213> Bacillus subtilis

<400> 104
acacgaccuc auauaaucuu gggaauaugg cccauaaguu ucuacccggc aaccguaaau 60
ugccggacua ugcaggaaag 80

<210> 105
<211> 80
<212> RNA
<213> Bacillus subtilis

<220>
<221> misc_feature
<222> (52)...(60)
<223> n = g, a, c or t/u

<400> 105
aggaacacuc auauaaucgc guggauaugg cacgcaaguu ucuaccgggc anccguaaan 60
uguccgacua ugggugagca 80

<210> 106
<211> 80
<212> RNA
<213> Bacillus subtilis

<220>
<221> misc_feature
<222> 52, 60
<223> n = g, a, c or t/u

<400> 106
auuaucacuu guauaaccuc aauaauaugg uuugagggug ucuaccagga anccguaaan 60
auccugauua caaaauuugu   80

<210> 107
<211> 80
<212> RNA
<213> Clostridium perfringens

<220>
<221> misc_feature
<222> 52, 60
<223> n = g, a, c or t/u

<400> 107
auuuugcuuc guauaacucu aaugauaugg auuagagguc ucuaccaaga anccgagaan 60
uucuugauua cgaagaaagc   80

<210> 108
<211> 80
<212> RNA
<213> Vibrio vulnificus

<220>
<221> misc_feature
<222> 52, 60
<223> n = g, a, c or t/u

<400> 108
ucaacgcuuc auauaauccu aaugauaugg uuugggaguu ucuaccaaga gnccuuaaan 60
cucuugauua ugaagucugu   80

<210> 109
<211> 69
<212> RNA
<213> Bacillus subtilis

<400> 109
cacucauaua aucgcgugga uauggcacgc aaguuucuac cgggcaccgu aaauguccga 60
cuaugggug   69

<210> 110
<211> 63
<212> RNA
<213> Bacillus subtilis

<400> 110
uuguauaacc ucaauaauau gguuugaggg ugucuaccag gaaccguaaa auccgauua 60
caa   63

<210> 111
<211> 102
<212> RNA
<213> Bacillus subtilis

<400> 111
uuguauaacc ucaauaauau gguuugaggg ugucuaccag gaaccguaaa auccgauua 60
caaaauuugu uuaugacauu uuuuguaauc aggauuuuuu uu   102

<210> 112
<211> 486
<212> DNA
<213> Bacillus subtilis

<220>
<221> misc_feature
<222> (21)...(307)
<223> n = g, a, c or t/u

<400> 112
atatccgttc ttatcaagag nnnaagcaga gggannctgg nnnncccgac gaagcttnnc 60
agcaaccggt gtaatggcnn nnnnnnnnnn nnnnnnnnnn nnngatcann nnnnnnnnnn 120
nnnnnnnnnn nnnnngccat gaccaaggtg ctaaatncca gnnnnnncaa gctnnnnnnn 180
nnnncgaaca nnnnnnnnnn ngcttggaag ataagaagag acaaaatcac tgacaaannn 240
nnnnnnnnnn nnnnnnnnnn nnnnnnnngt cttcttnnnn nnnnnnnnnn cttnnnnnnn 300
nnnnnnnaag aggacttttt tatttctctt ttttccttgc tgatgtgaat aaaggaggca 360
gacaatggga cttttagaag atttgcaaag acaggtgtta atcggtgacg gcgccatggg 420
gacgctcctc tactcctatg gcattgacag gtgttttgag gagctcaata tttcaaagcc 480
ggagga   486

<210> 113
<211> 486
<212> DNA
<213> Bacillus subtilis

<220>
<221> misc_feature
<222> (21)...(305)
<223> n = g, a, c or t/u

<400> 113
tcgatatttc ttatcgtgag nnnaggtgga gggannctgg nnnnccctta gaaacctnnc 60
agcaaccggc ttgtttttgcn nnnnnnnnnn nnnnnnnnnn nnnatttnnn nnnnnnnnnn 120
nnnnnnnnnn nnnngcaaag cgccaaggtg ctaaatncca gnnnnnncaa gcgtnnnnnn 180
nnnnttttn nnnnnnnnna tgcttggaag ataagaagaa gcgttaaann nnnnnnnnnn 240
nnnnnnnnnn nnnnnnnnnn nnnnnnncc ccttcttcnn nnnnnnnnnt tatnnnnnnn 300
nnnnngaaga aggggttttt attttgaaaa gggaaggtgt cagctatatg tcacagcacg 360
ttgaaacgaa attagctcaa attgggaacc gtagcgatga agtcacggga acagtgagtg 420
ctcctatcta tttatcaaca gcataccgcc acagagggat cggagaatct accggatttg 480
attatg   486

<210> 114
<211> 486
<212> DNA
<213> Bacillus subtilis

```
<220>
<221> misc_feature
<222> (21)...(304)
<223> n = g, a, c or t/u

<400> 114
acattttctc ttatcgagag nnttgggcga gggganttgg nnnncctttt gaccccaanc 60
agcaaccgac cnnnnnngta ataccattgt gaaatggggc gcactgcttt tcgcgccgag 120
actgatgtct cataannnnn nggcacggtg ctaattncca tnnnnnncag atnnnnnnnn 180
nnnnntgtnn nnnnnnnnnn ngtctgagag atgagagagg cagtgtttta cgtagaaaan 240
nnnnnnnnnn nnnnnnnnnn nnnnnnnngc ctctttctcn nnnnnnnnnt catnnnnnnn 300
nnnngggaaa gaggcttttt gttgtgagaa aacctcttag cagcctgtat ccgcgggtga 360
aagagagtgt tttacatata aaggaggaga aacaatgaca accatcaaaa catcgaattt 420
aggatttccg agaatcgacc tgaaccggga atggaaaaaa gcacttgaag cgtattggaa 480
aggcag                                                              486


<210> 115
<211> 486
<212> DNA
<213> Bacillus subtilis

<220>
<221> misc_feature
<222> (21)...(304)
<223> n = g, a, c or t/u

<400> 115
atatattctc ttatcgagag nnttgggcga gggatnttgg nnnncctttt gaccccaana 60
agcaaccgac cnnnnnngta attccattgt gaaatggggc gcantttttt tcgcgccgag 120
acgctggtct cttaannnnn nggcacggtg ctaattncca tnnntnncag atnnnnnnnn 180
nnnnnctgnn nnnnnnnnnn natctgagag ataagagagg cggacataga tgttaannnn 240
nnnnnnnnnn nnnnnnnnnn nnnnnnnngc ctccttctcn nnnnnnnnnn tctnnnnnnn 300
nnnngagaag gaggcttttt tacggccaca tattaattaa ttacataatt ggaggttatg 360
atgatgggag tcacaaaaac acctttatac gaaacgttaa atgaaagctc cgctgtggcg 420
ttggcggtga agcttggcct atttccaagc aaaagcacgc tgacatgcca ggagatcgga 480
gacggc                                                              486


<210> 116
<211> 486
<212> DNA
<213> Bacillus subtilis

<220>
<221> misc_feature
<222> (23)...(301)
<223> n = g, a, c or t/u

<400> 116
ctatattttc ttatcaagag cannggcaga gggganncgag nnnncccgat gaagccnnnc 60
ggcaaccgac ttnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnatannn nnnnnnnnnn 120
nnnnnnnnnn nnnnnnnnnn aagcacggtg ctaattnctt gnnnnnncag ctnnnnnnnn 180
nnnnnagcnn nnnnnnnnnn nggctgagag ataagattcg gacgagaaac gaaannnnnn 240
nnnnnnnnnn nnnnnnnnnn nnnnnnnncc tctttagacg cnnnnnnnng attnnnnnnn 300
ngcagtttga agaggttttt tgatatggat gaaaatgaaa ggagctctgg catgagtgag 360
ttattagcga catatctcct gaccgaaccg ggagccgata cagagaagaa agcagaacaa 420
atcgcaacag gattgacagt aggctcctgg actgatctgc cccttgtaaa acaggagcaa 480
atgcaa                                                              486
```

36

```
<210> 117
<211> 486
<212> DNA
<213> Bacillus subtilis

<220>
<221> misc_feature
<222> (22)...(305)
<223> n = g, a, c or t/u

<400> 117
atctaaaaac ttatcaagag cnnnggctga gggannctgg annncctnat gaagccnnnc 60
ggcaacctgc annnnnnnnn nnnnnnnnnn nnnnnnnnnn nnntagttnn nnnnnnnnnn 120
nnnnnnnnnn nnnnnnnnnn ntgtaaggtg ctnacttcca gnnnnnncaa aatgnnnnnn 180
nnnnaattcn nnnnnnnnnc attttgaaag ataagggctg catgctgttc ctgtnnnnnn 240
nnnnnnnnnn nnnnnnnnnn nnnnnnnnct ttctttccnn nnnnnnnnnn gccnnnnnnn 300
nnnnnggatt gaaagttttt tattttaaga ggtaaaaagg ctatctgtat atcagcagcc 360
gcgaatcaca ttacatggga aaagacaacc ggcagaaagc tactgtttgt ttgtctccga 420
aaggaggaaa gaagaaatgt taacgtatga taattgggaa gaaccaacga ttacatttcc 480
ggaaga                                                        486


<210> 118
<211> 486
<212> DNA
<213> Bacillus subtilis

<220>
<221> misc_feature
<222> (21)...(306)
<223> n = g, a, c or t/u

<400> 118
tcaatatttt ctatccagag nnnaggtgga gggannctgg nnnnccctat gaaacctnnc 60
ggcaacannn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnttatnnn nnnnnnnnnn 120
nnnnnnnnnn nnnnnnnnnn nnnnnntgtg ccaattncca gnnnnnncaa gcnnnnnnnn 180
nnnngctann nnnnnnnnnn ngcttgaaag ataggaaagc aaggtttata ccggcgtctg 240
cctgtaacag agcgcgccta tatatgaatc tctttccnnn nnnnnnnat cttcnnnnnn 300
nnnnnnggaa agagattttt tttatgaaaa atacgatgaa aaggatgttt tgcagcatga 360
cggttttggt tacagcaccg tacaacgaag aaggacgaaa agagcttgaa aacttgtttg 420
gctcagttgc ttatcaatct tggaaggaac aaggtagggc atatcgggag gatgaactca 480
ttcagc                                                        486


<210> 119
<211> 486
<212> DNA
<213> Bacillus subtilis

<220>
<221> misc_feature
<222> (23)...(307)
<223> n = g, a, c or t/u
```

<400> 119
gcggatactc ttatcccgag ctnnggcgga gggganncagg nnncccctat gaagccnnnc 60
agcaaccggt ttctcnnnnn nnnnnnnnnn nnntgttatt tattatgttc aactgagtnn 120
nnnnnnnnnn nnnnngagac aaccaaggtg ctaannncct gnnnttgcaa ggnnnnnnnn 180
nttgtatgat tnnnnnnnnn nccttgagcg ataagagtga aaggcacaaa gaccaaannn 240
nnnnnnnnnn nnnnnnnnnn nnnnnnnncc ctttccnnnn nnnnnnnnnt cgatnnnnnn 300
nnnnnnngga aaaggttttt ttatttcata aatatgccaa ttaacattct ctaatataac 360
tgtacattgt ataagaggga gcgagttccg tatcatatat acaaggtctt tcgggaggcc 420
ttgtgcagga ggaagcaaat catgagtaaa aatcgtcgtt tatttacatc agaatctgtt 480
acggag   486

<210> 120
<211> 486
<212> DNA
<213> Bacillus subtilis

<220>
<221> misc_feature
<222> (22)...(305)
<223> n = g, a, c or t/u

<400> 120
tatatttctc ttatcaagag annnggtgga gggannagtg nnnncccctat gaagccnnnc 60
ggcaaccatc aacnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnactnnn nnnnnnnnnn 120
nnnnnnnnnn nnnnnnnngt tgaaatggtg ccaattncac annnnnnncga agcnnnnnnn 180
nnnngttcan nnnnnnnnnn gctttgaaag atgagagaaa ggcattttat ataannnnnn 240
nnnnnnnnnn nnnnnnnnnn nnnnnnnngc ctttctgcnn nnnnnnntca agtgtnnnnn 300
nnnnngcaga aaggcttttc ttttgcagaa aaaaccggaa gatttcttag aatagtgtta 360
aggcaggtga ttgctttgat caatcttcag gatgtttcaa aagtttacaa gtcgaaacat 420
ggagatgtca atgctgtcca aaacgtctcg ctttccatta aaaaaggtga gatttttgga 480
attata   486

<210> 121
<211> 486
<212> DNA
<213> Bacillus subtilis

<220>
<221> misc_feature
<222> (22)...(305)
<223> n = g, a, c or t/u

<400> 121
aagttgtacc ttatcaagag annnggtgga gggannctgg nnncccctnat gataccnnnc 60
ggcaaccgct gttnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnntcannn nnnnnnnnnn 120
nnnnnnnnnn nnnnnnnnaa cagaatggtg ctaaatncct tnnnnnnaag aacnnnnnnn 180
nnnnattgcn nnnnnnnnnn gttcttgcag atgaggcgga gatttgatcg ttcaannnnn 240
nnnnnnnnnn nnnnnnnnnn nnnnnnnngc tcttccttnn nnnnnnnnna cacannnnnn 300
nnnnnaagga agagcttttt acatgcttaa tatttcagaa aagaggcgaa taacatggct 360
caacaaacga atgttgcagg acaaaaaaca gaaaaacaac gcaaagcacc tttccgcgcc 420
gatcatgtcg gcagcttgct tcgttccgtt ccggtaaagg aagcccggca aaaaaaagcg 480
gctggt   486

<210> 122
<211> 486
<212> DNA
<213> Bacillus subtilis

```
<220>
<221> misc_feature
<222> (22)...(305)
<223> n = g, a, c or t/u

<400> 122
aaggttttcc ttatcaagag annnggtgga gggannctgg nnnnccctgc gataccnnnc 60
ggcaaccgct gtnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnttannn nnnnnnnnnn 120
nnnnnnnnnn nnnnnnnnna cagaatggtg ctaaatncct tnnnnnntag agcaannnnn 180
nnnnntgann nnnnnnnntt gctcttgaag ataaggttga gattgtcacg caannnnnnn 240
nnnnnnnnnn nnnnnnnnnn nnnnnnnngc tcttccttnn nnnnnnnnna tccannnnnn 300
nnnnnaagga agagcttttt tatatttgaa tggaaagaag gaatggacaa catgtcacaa 360
caaacaacac ccgcagaaca aaaatcactt caaagaaaaa aaccgccgtt tcgcgcggat 420
caagtcggaa gcctgctaag atctgagccc gtcaaaaaag cgcggctgca aaaagcggcc 480
ggcgaa                                                            486

<210> 123
<211> 486
<212> DNA
<213> Bacillus halodurans

<220>
<221> misc_feature
<222> (22)...(306)
<223> n = g, a, c or t/u

<400> 123
tcatattttc ttatccagag tnnnggtgga gggannctgg nnnnccctgt gaagccnnnc 60
ggcaacctct ttnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnttttnnn nnnnnnnnnn 120
nnnnnnnnnn nnnnnnnnnn aaagaaggtg ccaattncca gnnnnnncag aacannnnnn 180
nnnnntgann nnnnnnnnnt gttctgaaag ataagaagcg aacggatcgn nnnnnnnnnn 240
nnnnnnnnnn nnnnnnnnnn nnnnnnnnca cgtcttcnnn nnnnnnnnnt tatcnnnnnn 300
nnnnnngaag aggtgttttt tcttgtttta acaccttatc tgtcggaaag attacttgtt 360
attgtaccga aaacagcaag acaaaaaaag aacaacttgg aatgaggagg cgttgtacat 420
gaaaaaaatt tacgtaatcc acgaaaacga tgaatggacg gttcacctat ttaaacgact 480
tgagga                                                            486

<210> 124
<211> 486
<212> DNA
<213> Bacillus halodurans

<220>
<221> misc_feature
<222> (22)...(308)
<223> n = g, a, c or t/u

<400> 124
ataaaaagac ttatcgagag annnggcaga gggannctga nnnncccgat gatgccnnnc 60
ggcaacccgt ttgttnnnnn nnnnnnnnnn nnnnnnnnnn nnnagccann nnnnnnnnnn 120
nnnnnnnnnn nagcaaacga aggtgctaat tntcagnnnn nncagaatgn nnnnnnnnna 180
tttnnnnnnn nnnncattct ggaagataag cgaaggcgaa aannnnnnnn nnnnnnnnnn 240
nnnnnnnnnn nnnnnnnnnn nnnnnnnncc tttcnnnnnn nnnnnnnnnt tatcnnnnnn 300
nnnnnnnngg aaaggttttt ttgttagaga gccaagtttt tataaaaatg aggagagggc 360
atacgaaagg ggaaataatc agatgattaa agttggtgtg atcggatttg gcaccgttgg 420
gcaaggtgtt gtcgagagtc tagttcaatt ggagcgagga ttaaggaaag aagttactct 480
cgaaat                                                            486
```

```
<210> 125
<211> 486
<212> DNA
<213> Bacillus halodurans

<220>
<221> misc_feature
<222> (21)...(302)
<223> n = g, a, c or t/u

<400> 125
tctcgtattc ttatccagag nnnaggtgga gggannacgg nnnncccgaa gaaacctnnc 60
agcaaccagc cacgnnnnnn nnnnnnnnnn nnnnnnnnnn nnnatccnnn nnnnnnnnnn 120
nnnnnnnnnn nnnnnnnntg tggtcaggtg ctaattncct gnnnnnncaa gcannnnnnn 180
nnnnttattn nnnnnnnnnn tgcttgagag ataagaggaa gcgagtgaga tccaannnnn 240
nnnnnnnnnn nnnnnnnnnn nnnnnnnnca cctacttctt cttnnaatct tacatgacnn 300
nngagaaggt aggtgttttt ttacacaatc agaaaagatc gaactttttca gatagtttaa 360
gaaaaatgaa ggctttcgca acttggcgac gagctgattt ttccaataga tggataggag 420
gagcaaccat gaatcgtaaa gaattagaaa cagctttagt acaaatcgga aatcgaatgg 480
atgatc                                                          486

<210> 126
<211> 486
<212> DNA
<213> Bacillus halodurans

<220>
<221> misc_feature
<222> (23)...(306)
<223> n = g, a, c or t/u

<400> 126
acggatactc ttatccagag ttnnggtgga ggganncagg nnnncccgaa gaaaccnncc 60
agcaaccaac acctnnnnnn nnnnnnnnnn nnnnnnnnnn ngttaaacaa nnnnnnnnnn 120
nnnnnnnnnn nnnnnnnagg tgaaaaggtg ctaannncct gnnnnnncaa ggcnnnnnnn 180
nnnnngttnn nnnnnnnnnn gccttgaaag ataagaggcg aaaggtatgt taattaannn 240
nnnnnnnnnn nnnnnnnnnn nnnnnnnncc cttttccnnn nnnnnnntc ataatnnnnn 300
nnnnnnggaa aagggttttc ctcattttta tacttttgca agtgtgctgt ggagaatgag 360
tgccgtatca tgttttgcgc agcctgccgt tggtaagggt gtgcttaagg gaggatattc 420
gtaaatggca gatacaagaa gtcgtcgctt atttacatca gagtctgtta cagaaggaca 480
tcctga                                                          486

<210> 127
<211> 486
<212> DNA
<213> Bacillus halodurans

<220>
<221> misc_feature
<222> (22)...(306)
<223> n = g, a, c or t/u
```

<400> 127
aagaaaactc ttatcatgag annnggtgga gggannctgg nnnncccgat gaagccnnnc 60
agcaaccgcc aagcnnnnnn nnnnnnnnnn nnnnnnnnnn nagcaaatcn nnnnnnnnnn 120
nnnnnnnnnn nnnnnngctt ggaaaaggtg ctaattncct gnnnnnncaa agcnnnnnnn 180
nnnnngatnn nnnnnnnnnn gctttgagag atgagagaag ggaagacgta aaacattnnn 240
nnnnnnnnnn nnnnnnnnnn nnnnnnnncc tttctgcnnn nnnnnnnnnt catgnnnnnn 300
nnnnnngcgg aaaggttttt ttgttctatt atgcagtttg attcacggaa ttgtactttc 360
ttacgataat gatttgcgtg ctccttgaga cgaaatttgc gagagtgaga gttttgctc 420
tcgtactgac tttcgttaaa ttggtaacgc gtagacgaac tgatatattt ttagaaaaga 480
gggctt 486

<210> 128
<211> 486
<212> DNA
<213> Oceanobacillus iheyensis

<220>
<221> misc_feature
<222> (21)...(305)
<223> n = g, a, c or t/u

<400> 128
atagttagac ttatcaagag nnnagatgga gggannttgg nnnncccgat gaagtctnnc 60
agcaaccagc ctnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnagatann nnnnnnnnnn 120
nnnnnnnnnn nnnnnnnnnn aggtatggtg ctaattncca annnnnntag gctnnnnnnn 180
nnnntacann nnnnnnnnnn agccttaaag ataagaagag ctatgtattt taannnnnnn 240
nnnnnnnnnn nnnnnnnnnn nnnnnnnncc cttcttctnn nnnnnnnnta cttttnnnnn 300
nnnnnagaag aggggttttt tgatttttag aataggagga gattattatg aagcggagtt 360
tacaaagacg tttgcaagaa ggcacggtaa tagcaggaga agggtattta tttgaattag 420
agaggagggg gtacttacag gcaggttcgt ttgtaccaga agtagccctt gaaaatccgg 480
atgcgt 486

<210> 129
<211> 486
<212> DNA
<213> Ocenobacillus iheyensis

<220>
<221> misc_feature
<222> (21)...(306)
<223> n = g, a, c or t/u

<400> 129
atgacaattc ttatccagag nnnaggtgga gggannctgg nnnncccaag gaagcctnnc 60
ggcaacagac ttannnnnnn nnnnnnnnnn nnnnnnnnnn nntttgatnn nnnnnnnnnn 120
nnnnnnnnnn nnnntaagta ctgtgccaat tnccagnnnn nntagcgnnn nnnnnnnnnt 180
aatnnnnnnn nnnnnntgct agaagatgag aagagtatat agtacggttt cctgtannnn 240
nnnnnnnnnn nnnnnnnnnn nnnnnnnncc ctcttctnnn nnnnnnnnta cttgtnnnnn 300
nnnnnnagaa ggggttttt actttttccct attctctgta cagaactgtc atatgctagt 360
ttcatagagc aagaccctac tctataagac tagcccaaat ctaaaggaga aagaaggaaa 420
ttaacatgac aaaaacagtt attaaagcac catttcgcgc agaccatgta ggtagcttac 480
tacgac 486

<210> 130
<211> 486
<212> DNA
<213> Oceanobacillus iheyensis

41

```
<220>
<221> misc_feature
<222> (21)...(315)
<223> n = g, a, c or t/u

<400> 130
atgaaaatac ttatcaagag nnnaggtgga gggannctgg nnnncccgct gaaacctnnc 60
agcaacagan nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nacgcatctg nnnnnnnnnn 120
nnnnnnnnnn nnnnnnnnnn nnnntctgtg ctaaatncct gnnnnnncaa gcnnnnnnnn 180
nnnnaatann nnnnnnnnnn ngcttgaaag ataagttgag gttatcgtaa tatccaagtt 240
ctctcttctt atctttatca tgttttttnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 300
nnnnnnnnnn nnnnnaatag aagggatgga tttatatatg agcatacgga atgaagatga 360
aacggaacaa agaagaaatg atctaattga gaaattaatt gcatctaatc attttaaaaa 420
agggaacaaa catctatatg aactgacaac agcagagttg gaatacgaat actttaaatt 480
acaata 486

<210> 131
<211> 486
<212> DNA
<213> Oceanobacillus iheyensis

<220>
<221> misc_feature
<222> (21)...(306)
<223> n = g, a, c or t/u

<400> 131
attgaataac ttatccagag nnntgacgga gggaancagg annncctanc gatgtcannc 60
agcaacctac cnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnntttacnn nnnnnnnnnn 120
nnnnnnnnnn nnnnnnnnnn nggagtggtg ctntcttcct gnnnnnncag aannnnnnnn 180
nnnnttttnn nnnnnnnnnn nttctgaaag ataaggtaat gatatgtaaa aannnnnnnn 240
nnnnnnnnnn nnnnnnnnnn nnnnnnnncc ttctttctnn nnnnnnnnng aatnnnnnnn 300
nnnnnngaaa gaaggttttt ttgatgggat gtgttatgta tgattcagtt ggaaaatatc 360
gagaaacact atgaatctaa aaagagaaga gtgatagggg tagatcaagt ttcccttgat 420
atcaaaaagg gagaaatata tggcatcgtt ggatatagcg gtgcaggtaa aagtacgctt 480
ttacgt 486

<210> 132
<211> 486
<212> DNA
<213> Oceanobacillus iheyensis

<220>
<221> misc_feature
<222> (23)...(303)
<223> n = g, a, c or t/u

<400> 132
acggatactc ttattcagag ttnnggtgga ggganncaga nnnncccgat gaagccnnnc 60
agcaaccatc actnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnactnnn nnnnnnnnnn 120
nnnnnnnnnn nnnnnnnngg tgaaaaggtg ctaannntct gnnnatgcaa ggannnnnnn 180
nnntaatagt nnnnnnnnnn tccttgaaca ataagagcga aaggccataa ttcttnnnnn 240
nnnnnnnnnn nnnnnnnnnn nnnnnnnncc tttcctcatn nnnnnnnnnn gttnnnnnnn 300
nnnatgaagg aaaggttttt ttgtttttat ctataatttt aggtaccgcg tttttttagta 360
cgaggttctt ttattggcac tttgaatagg atagaagtta taaagagatc cgtaccaaca 420
tatatcaaag gagagtttag ccttatggct gcaaatcgac gtttatttac ttcagagtca 480
gtaact 486
```

42

<210> 133
<211> 486
<212> DNA
<213> Oceanobacillus iheyensis

<220>
<221> misc_feature
<222> (21)...(304)
<223> n = g, a, c or t/u

<400> 133
atgatatctc ttatctagag nnncggtgga gggannctgg nnnncccttt gaaaccgnnc 60
ggcaaccttc atnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnaattaann nnnnnnnnnn 120
nnnnnnnnnn nnnnnnnnnn atgaaaggtg ccaattncct gnnnnnncan nnnnnnnnnn 180
nnnngaaaan nnnnnnnnnn nnnntgaaag atgagagaac gtcagacgat atacgataaa 240
tacgtannnn nnnnnnnnnn nnnnnnnncg tctttctgtn nnnnnnnntc tcttnnnnnn 300
nnnnacagaa aggcgttttt attttgacga attatgggga aactatacga aatggttgct 360
ggagagtaag aggaggaata aagattgata tccatcgaag ggttaagtaa agtattttca 420
ttaaataaaa aagacatcaa agctgtagac tcattgaccc tcaatattga aaatggcgat 480
atttat 486

<210> 134
<211> 486
<212> DNA
<213> Oceanobacillus iheyensis

<220>
<221> misc_feature
<222> (21)...(306)
<223> n = g, a, c or t/u

<400> 134
tacgtttttc ttatcatgag nnnaggcgga gggaanatgg nnnncccaac gaaacctnnc 60
ggcaacaggt tctnnnnnnn nnnnnnnnnn nnnnnnnnnn nnntattnnn nnnnnnnnnn 120
nnnnnnnnnn nnnnnnnnna gaatactgtg ccaattncca tnnnnnncaa gcannnnnnn 180
nnnnnaatnn nnnnnnnnnn tgcttgaaag ataagagtag aataatttat tagctttaaa 240
annnnnnnnn nnnnnnnnnn nnnnnnnnct ctattctnnn nnnnnnnnta ttacnnnnnn 300
nnnnnnggaa tagagttttt tgttacatag aatggctcta taatatttgt tggggtaaaa 360
gaaaaataaa aaacacgcaa tctcctattt ttgttatcat tgtttaaacc actaaaccaa 420
acaaaaagga gatgcgtgca attgaattct aacataacat tacctgggtt ggaagaagga 480
aatata 486

<210> 135
<211> 486
<212> DNA
<213> Oceanobacillus iheyensis

<220>
<221> misc_feature
<222> (21)...(304)
<223> n = g, a, c or t/u

<400> 135
```
atgaaatatc ttatcctgag nnnaggtgga gggaanatgg nnnncccaaa gaagcctnnc 60
ggcaacaggt tcnnnnnnnn nnnnnnnnnn nnnnnnnnnn nntagcttnn nnnnnnnnnn 120
nnnnnnnnnn nnnnnnnnnn gaatactgtg ccaaatncca tnnnnnncaa gtatnnnnnn 180
nnnnntctnn nnnnnnnnna tgcttggtag ataagagaag tcggcgacag agnnnnnnnn 240
nnnnnnnnnn nnnnnnnnnn nnnnnnnnct cttttcttan nnnnnnnnnt cttnnnnnnn 300
nnnntatgaa aagggttttt taattactaa cgatagataa tgggggatga aaatgaagta 360
tggtttctgg ttgccgattt ttggagggtg gttgcgtaat gtagaagatg aacagatgcc 420
tcctactttt gaatatgcaa aacaggtaat tcagcacgcg gaagaatggg gatatgatac 480
gacttt                                                          486
```

<210> 136
<211> 486
<212> DNA
<213> Oceanobacillus iheyensis

<220>
<221> misc_feature
<222> (22)...(308)
<223> n = g, a, c or t/u

<400> 136
```
ttatttttcc ttatcaagag tnncggggga ggaatnctgg nnnntccatt gatcccgnnc 60
agcaaccagt tacnnnnnnn nnnnnnnnnn nnnnnnnnnn nnaatgaann nnnnnnnnnn 120
nnnnnnnnnn nnnnnnnnng taacatggtg ctcattncca gnnnnnncaa gcnnnnnnnn 180
nnnngtagnn nnnnnnnnnn ngcttgatag atgagaaaag tgtttatacc ttttaaataa 240
aannnnnnnn nnnnnnnnnn nnnnnnnnct ctttcnnnnn nnnnnnnnnt catcnnnnnn 300
nnnnnnnngg aagagttttt tctttgttgt cagtgagggt ttggaaaaat aagtggaaca 360
gtttgacttc aaatatgagt aaaccaatca ggtaactaaa gtaggggggat cgaaactgtc 420
aagtgatcgt agtttataaa aatctaaaat gaagaggaga gcgtgtatta tgccaactat 480
aaaaac                                                          486
```

<210> 137
<211> 486
<212> DNA
<213> Oceanobacillus iheyensis

<220>
<221> misc_feature
<222> (22)...(306)
<223> n = g, a, c or t/u

<400> 137
```
agcaaatctc ttatcaagag tnnnggtgga gggaantagg nnnncccctgc gaagccnnnc 60
ggcaacctgt agcnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnaattnnn nnnnnnnnnn 120
nnnnnnnnnn nnnnnngcta ttgaaaggtg ctaaatncct annnnnncag acnnnnnnnn 180
nnnttcatcn nnnnnnnnnn ngtctggaag ataagaggag gttcggtttt aaacagacaa 240
annnnnnnnn nnnnnnnnnn nnnnnnnngt cctcttcnnn nnnnnnnnnt tatnnnnnnn 300
nnnnnngaag ggggcttttt ttaatccttc tcttattact ttaaaaataa taaattcaag 360
gaggaaacac gatgtctaaa tttcaatctt tgcaagcaga aacaatctta cttcatggag 420
gacaggaacc agacccatca actggttcac gtgcagttcc aatttatcaa actacgtcct 480
atgtgt                                                          486
```

<210> 138
<211> 486
<212> DNA
<213> Oceanobacillus iheyensis

<220>
<221> misc_feature
<222> (21)...(304)
<223> n = g, a, c or t/u

<400> 138
atgaaatatc ttatcctgag nnnaggtgga gggaanatgg nnnncccaaa gaagcctnnc 60
ggcaacaggt tcnnnnnnnn nnnnnnnnnn nnnnnnnnnn nntagcttnn nnnnnnnnnn 120
nnnnnnnnnn nnnnnnnnnn gaatactgtg ccaaätncca tnnnnnncaa gtatnnnnnn 180
nnnnntctnn nnnnnnnnna tgcttggtag ataagagaag tcggcgacag agnnnnnnnn 240
nnnnnnnnnn nnnnnnnnnn nnnnnnnnct cttttcttan nnnnnnnnnt cttnnnnnnn 300
nnnntatgaa aagggttttt taattactaa cgatagataa tggggatga aaatgaagta 360
tggtttctgg ttgccgattt ttggagggtg gttgcgtaat gtagaagatg aacagatgcc 420
tcctactttt gaatatgcaa aacaggtaat tcagcacgcg gaagaatggg gatatgatac 480
gacttt   486

<210> 139
<211> 486
<212> DNA
<213> Oceanobacillus iheyensis

<220>
<221> misc_feature
<222> (21)...(300)
<223> n = g, a, c or t/u

<400> 139
ttaatacttc ttatcgagag nnnaagctaa gggacnctgg nnnncctgtt gacgcttnnc 60
agcaacctct annnnnnnnn nnnnnnnnnn nnnnnnnnnn nntctccatn nnnnnnnnnn 120
nnnnnnnnnn nnnnnnnnnn tagaaaggtg ctacctncca gnnnnnncaa gatnnnnnnn 180
nnnngtatnn nnnnnnnnnn gtcttgaaag ataagagtcc agattaaaaa aaannnnnnn 240
nnnnnnnnnn nnnnnnnnnn nnnnnnnntc cgcgacgctc ttannnnnnt ttatnnnnnn 300
taagggcatc gcggattttc ttatattaat tttatttta aaggagattg gtaaaatgaa 360
caacattgtg acattgtccg gcagccctc cgaactatct agatctgaaa aagtactaca 420
ttatttaggg aatcaattaa gtgaacagaa attctatgtg acccatattt ctgttaaaga 480
tgtacc   486

<210> 140
<211> 486
<212> DNA
<213> Oceanobacillus iheyensis

<220>
<221> misc_feature
<222> (21)...(301)
<223> n = g, a, c or t/u

<400> 140
acgttttttc ttatctagag nnnagattga gggatncagg nnnncccctat gacatctnnc 60
ggcagcggat tctttannnn nnnnnnnnnn nnnnnnnnnn nnnntatnnn nnnnnnnnnn 120
nnnnnnnnnn nnnnnntaaa gaatactgtg ccaattncct gnnnnnncaa atgcnnnnnn 180
nnnaaacgan nnnnnnnnng catttgaaag atgagaaacg atggcttcta catatataca 240
tatggtacga annnnnnnnn nnnnnnnntc cctctttct tgnnnnnnnt ctttnnnnnn 300
ncaagaaaag agggattttt tatttcgctt gggggttgag acatgattga atttcagaat 360
gtaacaaaga cattcacact aggaaaaaga aaagtagaag ctgttaaaga agtatctcta 420
acgatcgaaa aaggagatat ttatggaatt attgggttca gcggtgcagg aaaaagtacc 480
ttgctt   486

```
<210> 141
<211> 486
<212> DNA
<213> Oceanobacillus iheyensis

<220>
<221> misc_feature
<222> (22)...(304)
<223> n = g, a, c or t/u

<400> 141
ctaatatctc ttattgagag tnnnggctga gggannctgg nnnnccctgt gacgccnnnc 60
ggcaaccgtt catcgtnnnn nnnnnnnnnn nnnnnnnnnn nnaattccan nnnnnnnnnn 120
nnnnnnnnnn nnnnnngtga tgaataggtg ctaaatncct gnnnnnncaa aatacnnnnn 180
nnnnggacan nnnnnnnngt attttgagaa ataagagagg tgatgaatga cttacgtagt 240
gtaatgttan nnnnnnnnnn nnnnnnnntg cctctcgatn nnnnnnnnnt tcacnnnnnn 300
nnnnatcggg aggcattttt tagtttcccg gaaaaattca caacatgaga aaagaggaag 360
gatttatgtc cacatcgatt gtaaaaggag ctccgggtca ttatcggatt ggcgcggatg 420
tcttggagga aattcctgta ctgcttgaag aactgtcagt taatcgtata caagttatcg 480
caggga                                                           486

<210> 142
<211> 486
<212> DNA
<213> Clostridium acetobutylicum

<220>
<221> misc_feature
<222> (22)...(302)
<223> n = g, a, c or t/u

<400> 142
taattgtttc ttatcaagag tnnngacgga ggganntagg nnnnccctat gaagtcnnnc 60
ggcaacatcc aannnnnnnn nnnnnnnnnn nnnnnnnnnn nnnttattnn nnnnnnnnnn 120
nnnnnnnnnn nnnnnnnnnt tggagatgtg ctaattncct annnnnncag gnnnnnnnnn 180
nnnntttatn nnnnnnnnnn nncctgagag atgagaatgt ttttaaaann nnnnnnnnnn 240
nnnnnnnnnn nnnnnnnnnn nnnnnnnnct gcttcttatt tnnnnnnntt taatnnnnnn 300
nnggataaga agcagtttta tttttttatt attaggagga gaagattatg ggagaaatag 360
attgtagaaa ttttgagaca aaagcagttc atggggagag tggtttttgag agcagaactg 420
gggcaataag ctacccaata taccaaagtt ctacctttag acatgaaggc ttaaataaag 480
gaactg                                                           486

<210> 143
<211> 486
<212> DNA
<213> Clostridium acetobutylicum

<220>
<221> misc_feature
<222> (22)...(307)
<223> n = g, a, c or t/u
```

<400> 143
tgtaaaaatc ttatcaagag tnnggtgga gggannctgg nnncccttt gaaaccnnnc 60
ggcaaccagt atattnnnnn nnnnnnnnnn nnnnnnnnnn nnntttnnn nnnnnnnnnn 120
nnnnnnnnnn nnnnnnnaat atatgtggtg ctaaatncct gnnnnnncag cnnnnnnnnn 180
nnnnaaaacnn nnnnnnnnnn nngctgatag atgagaataa tcgcgaatgt aaannnnnnn 240
nnnnnnnnnn nnnnnnnnnn nnnnnnnngc ccgaggnnnn nnnnnnnntt atttnnnnnn 300
nnnnnnncca agggcttttt atttttatcct atttttttaag ggggctaact tatgaattct 360
tcactaaaga atttgttaaa taacaaaatt ttagtttttag atggtgctat gggaacatgt 420
attcaatcct ttaatctaga tgaaggcgac tttaaaggtt ccttatcttg tacatgtcat 480
tccaat 486

<210> 144
<211> 486
<212> DNA
<213> Clostridium acetobutylicum

<220>
<221> misc_feature
<222> (21)...(305)
<223> n = g, a, c or t/u

<400> 144
taatatttcc ttatcaagag nnnaaacgga gggannctgg nnnncccaat gatgtttnnc 60
agcaaccaag gtnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnntttatnn nnnnnnnnnn 120
nnnnnnnnnn nnnnnnnnnn acttatggtg ctaattncca gnnnnnncag gannnnnnnn 180
nnnntattnn nnnnnnnnnn nttctgaaag atgaggagcg actatttaaa cattttttatt 240
ttgttaatag annnnnnnnn nnnnnnnntc ctcttcttnn nnnnnnnnnt taannnnnnn 300
nnnnnaagaa gaggatttta ttttgttaat aatagaacca acttattatt atttggtttt 360
attctattaa aagtggtggt ataggacata ttttattaaa agaagagaga aatacctcca 420
atatttctcc cttcaattcc ataagcttat agattttacc caatctatcc taaaatattt 480
ttacta 486

<210> 145
<211> 486
<212> DNA
<213> Clostridium acetobutylicum

<220>
<221> misc_feature
<222> (22)...(306)
<223> n = g, a, c or t/u

<400> 145
attagtgcac ttatcaagag annnggtgga gggannccgg nnnncccttgt gaagccnnnc 60
agcaacctgt atannnnnnn nnnnnnnnnn nnnnnnnnnn nntgttaatn nnnnnnnnnn 120
nnnnnnnnnn nnnnnnnnnt atacaaggtg ctaattncct gnnnnnncag cnnnnnnnnn 180
nnnngctann nnnnnnnnnn nngctgagag atgagaatat aaatcgagct tttannnnnn 240
nnnnnnnnnn nnnnnnnnnn nnnnnnnnga gccagagnnn nnnnnnnntt tattnnnnnn 300
nnnnnnctct ggctcttatt atttttttaat ctaatgggaa aaggtgaatg acatgataga 360
aataaaaaat gtttctaaat attttttcagg aaataaggtt cttaaagatg ttgatctgaa 420
gattaaaggc ggagaaatat ttggaattgt tggtcatagt ggagctggaa agtcaacatt 480
acttag 486

<210> 146
<211> 486
<212> DNA
<213> Clostridium acetobutylicum

```
<220>
<221> misc_feature
<222> (21)...(305)
<223> n = g, a, c or t/u

<400> 146
atattatttc ttatcaagaa nnnnggtgga gggannctgg nnnnccctat gaagccnnnt 60
gacaaccggc nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnaaatnnn nnnnnnnnnn 120
nnnnnnnnnn nnnnnnnnnn nngtacggtg ttaattncct gnnnnnncaa aacnnnnnnn 180
nnnttatttn nnnnnnnnnn gttttgaaag ataagaaaac agcttattaa ttaatgagta 240
tgttaataan nnnnnnnnnn nnnnnnnntc cgtttttcnn nnnnnnnnnt tattnnnnnn 300
nnnnnggaaa atggattttt tttatatatt aaaatttaaa ctaggacggt gaaaaaaatg 360
cctataaaaa tacctgataa tcttccagca gcaaaaactt taaatgaaga aaatatattt 420
tttatggatg aggatagagc ctatcatcaa gatataagac ctcttaatat tgttatagtt 480
aacctt                                                          486


<210> 147
<211> 486
<212> DNA
<213> Clostridium acetobutylicum


<220>
<221> misc_feature
<222> (22)...(307)
<223> n = g, a, c or t/u

<400> 147
tgataaggtc ttatcaagag annnggtgga gggannctgg nnnnccctat gaaaccnnnc 60
aacaaccagc atttnnnnnn nnnnnnnnnn nnnnnnnnnn nntttaattn nnnnnnnnnn 120
nnnnnnnnnn nnnnnnnnag atgtatggtg ttaattncct gnnnnnncaa agnnnnnnnn 180
nnnnttaann nnnnnnnnnn nttttgagag ataagaggat tataaaattt tagaaagcta 240
aaannnnnnn nnnnnnnnnn nnnnnnnntc ctcttcnnnn nnnnnnnnaa ctaannnnnn 300
nnnnnnngaa gaggatttaa ttttatatat ttttaggttt agatattgaa gttaaaatat 360
aataaaaagg ggattttaaa aatgagtgaa gaaagaaaat ttggttttga aacattacag 420
gttcatgcag gacaagttgc tgatccaact acaggatcaa gagctgtacc tatttatcaa 480
acaaca                                                          486


<210> 148
<211> 486
<212> DNA
<213> Clostridium acetobutylicum


<220>
<221> misc_feature
<222> (22)...(307)
<223> n = g, a, c or t/u

<400> 148
atggaaactc ttatcaagag annnggtgga gggaanaggg nnnncccgtt gaaaccnnnc 60
ggcaaccgat gtattnnnnn nnnnnnnnnn nnnnnnnnnn nnaatttann nnnnnnnnnn 120
nnnnnnnnnn nnnnnagta cataatggtg ccaattncct gnnnnnncag aannnnnnnn 180
nnnnnttann nnnnnnnnnn nttctgcaag ataagagaga gaatgttaan nnnnnnnnnn 240
nnnnnnnnnn nnnnnnnnnn nnnnnnnngt ctcttcnnnn nnnnnnnnnt tattnnnnnn 300
nnnnnnngag gagactttta tttttatatt gtaggaggaa gtggatataa tgagaaagtt 360
atttacatct gaatcagtaa cagaagggca tccagataaa atctgcgatc aaatatcaga 420
cgctattta gatgccatat tggaaaaaga tccaaatgga agagttgctt gtgaaactac 480
agtgac                                                          486
```

```
<210> 149
<211> 486
<212> DNA
<213> Clostridium perfringens

<220>
<221> misc_feature
<222> (22)...(300)
<223> n = g, a, c or t/u

<400> 149
ttatatactc ttatccagag annnggtgga gggaaaaagg nnnnccctat gaaaccnnnc 60
ggcaaccagt gannnnnnnn nnnnnnnnnn nnnnnnnnnn nnngaaannn nnnnnnnnnn 120
nnnnnnnnnn nnnnnnnnnt cactacggtg ccaattnccg gnnnnnntaa agannnnnnn 180
nnnnnaatnn nnnnnnnnnn tctttacaag atgagagaag ataaatttag tgtataacta 240
aaannnnnnn nnnnnnnnnn nnnnnnnntc tcttcttaaa tctnnnnnnt taannnnnnn 300
aggtttgaga agagattttt ttattaacaa aaatatttta aaggcgcgca ttaaaataaa 360
gtttgttaat taagctttaa agatattatt ttgaatcgtg ggaagataaa ttaagttatt 420
tgtttaaata aacagggttg gaataaataa aaatgaaagg ggtgaattag ctatcttatt 480
atgata                                                         486

<210> 150
<211> 486
<212> DNA
<213> Clostridium perfringens

<220>
<221> misc_feature
<222> (22)...(307)
<223> n = g, a, c or t/u

<400> 150
ttaataaatc ttatcaagag annnggtgga gggannctgg nnnnccctgt gaaaccnnnc 60
agcaaccggt aattctttgc ggttaaaaca atgctgattt taaaataaaa aaatcagtag 120
taatttccta tgcaaagatt tatagcggtg ctaaatncct gnnnnnncgg tnnnnnnnnn 180
nnnnagaann nnnnnnnnnn nnactgagag ataagaaaga gagtctgtaa gaataataan 240
nnnnnnnnnn nnnnnnnnnn nnnnnnnnct tctatcnnnn nnnnnnnnnc tagnnnnnnn 300
nnnnnnngat aggagttttt ttattttgta ggataaagga tagatttatt aaatggatta 360
ggaggagaga aaatgaaaaa aggaaagttt tcagcattat taccattaat aattttttgta 420
tcgatttatt tgggaacttc attagtaatg aaagatttct actctgtatc tgttttagtt 480
ccagga                                                         486

<210> 151
<211> 486
<212> DNA
<213> Listeria monocytogenes

<220>
<221> misc_feature
<222> (22)...(304)
<223> n = g, a, c or t/u
```

<400> 151
ttacgttttc ttatcaagag tnnggtgga gggannatcg gnnncccagt gaaaccnnnc 60
agcagcggag cnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnngcaannn nnnnnnnnnn 120
nnnnnnnnnn nnnnnnnnnn nngttctatg ctaattnccg atnnnnncag aannnnnnnn 180
nnngtaatan nnnnnnnnnn nttctggcag ataagtagta gctttcaatg aggnnnnnnn 240
nnnnnnnnnn nnnnnnnnnn nnnnnnnntg cttcgattct gnnnnnnacc aaaaaannnn 300
nnnncagagg aagcgttatt tttttagcgc ttaaagaggg gagttttgt tagatgaaga 360
aatttttatt agtagcggtt atctcggttt ttgccttggt gttaacggct tgcggaggtt 420
ctggcgctag ttcagacaaa gcaaacggtt caggcaaagc gaaagacggc ggctctctta 480
ttatcg   486

<210> 152
<211> 486
<212> DNA
<213> Listeria monocytogenes

<220>
<221> misc_feature
<222> (22)...(305)
<223> n = g, a, c or t/u

<400> 152
atattttctc ttatcgagag cnnnggcaga gggannctgg nnnncccgat gaagccnnnc 60
ggcaacctaa ctttatnnnn nnnnnnnnnn nnnnnnnnnn nnttaagcnn nnnnnnnnnn 120
nnnnnnnnnn nnnnnataa agtgaaggtg ctaattncca gnnnnnncaa aatggnnnnn 180
nnntgtattn nnnnnnnncc gttttggtag ataagaggag ctggatatgt tcgactttcc 240
nnnnnnnnnn .nnnnnnnnnn nnnnnnnnac ttctctattn nnnnnnnnnc taannnnnnn 300
nnnnnaatag agaagttttt ttattgcttt catgaataaa tctggataat cacacaacat 360
actagggagg aaaaaagatg aaaaaattaa caaaagggtt aggaatttta cttgcatcaa 420
gccttgtttt aggattagca gcatgtggag gaggcagtga cgataaagcc ttaagcacag 480
aaaaaa   486

<210> 153
<211> 486
<212> DNA
<213> Listeria monocytogenes

<220>
<221> misc_feature
<222> (21)...(303)
<223> n = g, a, c or t/u

<400> 153
tagtattttc ttatcacgaa nnnaggtgga gggannctgg nnnncccttt gaagcctnnt 60
agcaaccgga annnnnnnnn nnnnnnnnnn nnnnnnnnnn nnntttatnn nnnnnnnnnn 120
nnnnnnnnnn nnnnnnnnnn tttcacggtg ctaattncca gnnnnnncag nnnnnnnnnn 180
nnntatattn nnnnnnnnnn nnnctgaaag ataagtcgga aatccaagtt taggaaactc 240
tatnnnnnnn nnnnnnnnnn nnnnnnnncc tctctggcgg nnnnnnnctt atatannnnn 300
nnnctgctag ggaggttttt tgatggaaat tactgataaa tacatatcaa agaggagtgg 360
attttatgag taatgagtat aaattcgaaa caattcaagt acacggcgga cacacaccgg 420
acggagatac acattctaga gccgtaccta tttatcaaac gacgtcatac acatttgata 480
gcccgg   486

<210> 154
<211> 486
<212> DNA
<213> Listerial monocytogenes

50

```
<220>
<221> misc_feature
<222> (21)...(301)
<223> n = g, a, c or t/u

<400> 154
acatagtaac ttatcaagaa nnnaggtgga gggttnctgg nnnnccccgt gaagcctnnt 60
ggcaaccgga nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnttttnnn nnnnnnnnnn 120
nnnnnnnnnn nnnnnnnnnn nntcacggtg ccaaatncca gnnnnnncag nnnnnnnnnn 180
nnngtaacan nnnnnnnnnn nnnctgacag ataaggcacg cgaatcaggt aaattactnn 240
nnnnnnnnnn nnnnnnnnnn nnnnnnnnct ttcccttaaa agnnnnnnnc tgtnnnnnnn 300
ncttttaagg gaaagttttt ttatacataa aaataataag aattgaggcg aagaaaatga 360
accaagtagc tccattttat gcagatcatg tgggaagtat tttacgcaca aagggaatta 420
aagacgcacg agagaaattc caaagtggcg aaataacagc cttagagttg cgcaaaatcg 480
aaaata                                                            486


<210> 155
<211> 486
<212> DNA
<213> Listeria monocytogenes

<220>
<221> misc_feature
<222> (22)...(296)
<223> n = g, a, c or t/u

<400> 155
aatttatctc ttatccagag cnnnggtaga gggannctga nnnnccsttt gaagccnnnc 60
agcaacctac acnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnatataann nnnnnnnnnn 120
nnnnnnnnnn nnnnnnnnnn gtgaaaggtg ctaannntct gnnnttgcag gagnnnnnnn 180
nnntattatn nnnnnnnnnn cttctgaacg atgagagcaa aggtataatt atnnnnnnnn 240
nnnnnnnnnn nnnnnnnnnn nnnnnnnnag cctttctcta ttcgtgcgcg ttttnngtgc 300
aaaatagaga gaggctttt atatgagacg tatttggaga gaattgaagg aggaaaataa 360
aattggctaa gaaccgtcat ctatttacat cagaatcggt ttctgatgga catccagata 420
aaattgcaga tcaaatatct gatgcaattt tagatgcaat tatttcaaaa gatcccgacg 480
cgcgtg                                                            486


<210> 156
<211> 486
<212> DNA
<213> Listeria monocytogenes

<220>
<221> misc_feature
<222> (22)...(306)
<223> n = g, a, c or t/u

<400> 156
taaattgctc ttataatgag tnnnggtaga gggannctgg nnnnccogtt gaaaccnnnc 60
ggcaaccttt caannnnnnn nnnnnnnnnn nnnnnnnnnn nnntacgnnn nnnnnnnnnn 120
nnnnnnnnnn nnnnnnnnnt tgaaaaggtg ctaaatncct gnnnnnncga agtgnnnnnn 180
nnnnntgann nnnnnnnnnt gcttcgagag ataagagaga cttaaaaagt ttcagtgtat 240
ttgtgtatcg aaacttccaa annnnnnncc tctctagnnn nnnnnnnnnt tctnnnnnnn 300
nnnnnnctag ggaggttttt tattggcaaa aaatcgagag gataaggtga taggtatggt 360
aaaggcgatt agttcaaact tggggtatcc gagacttggg gagaaacgtg aatggaaacg 420
tgcgttagaa aaattctgga atggtgcgat ttcggaagag gaattgttgg ctgaaacgaa 480
ggctct                                                            486
```

```
<210> 157
<211> 486
<212> DNA
<213> Listeria monocytogenes

<220>
<221> misc_feature
<222> (22)...(304)
<223> n = g, a, c or t/u

<400> 157
tgtagaaatc ttatccagag tnnnggtgga gggannaatg nnnnccctat gaagccnnnc 60
agcaacctaa acaataannn nnnnnnnnnn nnnnnnnnnn nnnttcannn nnnnnnnnnn 120
nnnnnnnnnn nnnnttatgt gtttaaggtg ctaagtncat gnnnnnnncag aacaannnnn 180
nnnnctaann nnnnnnnntt gttctgaaag atgagaagga agttagtcca tttgaaaaaa 240
tgctnnnnnn nnnnnnnnnn nnnnnnnngc ctttctgctn nnnnnnnnnc atcnnnnnnn 300
nnnnagcaga aaggcttttt ttgtatatca gaatgtagaa aaggtgatag agatgattac 360
gttacaaaac gttgtaaaag aatacacgtc cagaaacaac aaagttctcg cagtcgatca 420
tgtcgattta gaaattgaac aaggcgagat tttcggagtt gtaggttatt ccggagctgg 480
taaaag                                                        486

<210> 158
<211> 486
<212> DNA
<213> Listeria innocua

<220>
<221> misc_feature
<222> (22)...(304)
<223> n = g, a, c or t/u

<400> 158
ttacaatttc ttatccagag tnnnggtgga gggaantcgg nnnncccagt gaaaccnnnc 60
ggcagcggag cnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnngcaannn nnnnnnnnnn 120
nnnnnnnnnn nnnnnnnnnn nngttctatg ctaattnccg annntnncag aannnnnnnn 180
nnngtaatan nnnnnnnnnn nttctggcag ataagtagta gcttttaatg aggnnnnnnn 240
nnnnnnnnnn nnnnnnnnnn nnnnnnnncg cttcgattct gnnnnnnacc aaaaaannnn 300
nnnncagagg aagcgttatt tttagcgctt aaagaggga gttttttgtta gatgaagaaa 360
ttttttattag tagcggttat ctcggttttt gccttggtgt taacggcttg cggaggctct 420
ggcgctagtt cagacaaagc aaacggttca ggcaaagcga aagacggcgg ctctctaatt 480
atcggt                                                        486

<210> 159
<211> 486
<212> DNA
<213> Listeria innocua

<220>
<221> misc_feature
<222> (22)...(305)
<223> n = g, a, c or t/u
```

```
<400> 159
atattttctc ttatcgagag cnnggcaga gggannctgg nnncccgat gaagccnnnc 60
ggcaacctaa ctttatnnnn nnnnnnnnn nnnnnnnnn nnttaagcnn nnnnnnnnn 120
nnnnnnnnnn nnnnnngtaa agtgaaggtg ctaattncca gnnnnnncaa aatggnnnnn 180
nnntgtattn nnnnnnnncc gttttggtag ataagaggag ctggatatgt tcgactttcc 240
annnnnnnnn nnnnnnnnnn nnnnnnnnct tctctattnn nnnnnnnnnn ctannnnnnn 300
nnnnnaatag agaagttttt ttattgcttt catgaataaa tctggataaa taatcaacat 360
actagggagg aaaaaaagat gagaaaatta acaaaagggt taggaatttt acttgcatca 420
agccttattc tagggttagc agcatgtgga ggcggaagtg acgataaagc cttaagcaca 480
aaagaa                                                           486

<210> 160
<211> 486
<212> DNA
<213> Listeria innocua

<220>
<221> misc_feature
<222> (21)...(303)
<223> n = g, a, c or t/u

<400> 160
tagtattttc ttatcacgaa nnnaggtgga gggannctgg nnncccttt gaagcctnnt 60
agcaaccgga annnnnnnnn nnnnnnnnn nnnnnnnnn nntttattnn nnnnnnnnn 120
nnnnnnnnnn nnnnnnnnnn nttcacggtg ctaattncca gnnnnnncag nnnnnnnnn 180
nnntatattn nnnnnnnnnn nnnctgaaag ataagtcgga aatccaagtt taggaaactc 240
tatnnnnnnn nnnnnnnnnn nnnnnnncc tctctggcgg nnnnnnnctt atatannnnn 300
nnnctgctag ggaggttttt tgatggaaat tactgataaa tacatattaa agaggagtgg 360
attttatgag taatgagtat aaattcgaaa caattcaagt acacggcgga catacaccgg 420
acggagatac gcattctaga gccgtaccaa tttatcaaac aacatcgtat acatttgata 480
gcccag                                                           486

<210> 161
<211> 486
<212> DNA
<213> Listeria innocua

<220>
<221> misc_feature
<222> (21)...(301)
<223> n = g, a, c or t/u

<400> 161
acatagtaac ttatcaagaa nnnaggtgga gggttnctgg nnncccagt gaagcctnnt 60
ggcaaccgga nnnnnnnnnn nnnnnnnnnn nnnnnnnnn nnnctttnnn nnnnnnnnn 120
nnnnnnnnnn nnnnnnnnnn ntcacggtgc caaatnncca gnnnnnncag tnnnnnnnnn 180
nnnnnatcnn nnnnnnnnnn nnactgacag ataaggcacg cgaaacaggt aaatcactnn 240
nnnnnnnnnn nnnnnnnnnn nnnnnnnnct ttcccttaaa agnnnnnnnc tgtnnnnnnn 300
ncttttgggg gaaagttttt ttgtacataa aaataactag aattgaggcg aagaaaatga 360
atcaagtggc accattttat gcagatcatg ttggaagtat tttacggaca aaggcaatta 420
aagaggcacg cgagaaattc caaagtggcg aaattacaac tcaagaatta cgtgaaattg 480
aaaatg                                                           486

<210> 162
<211> 486
<212> DNA
<213> Listeria innocua
```

```
<220>
<221> misc_feature
<222> (22)...(295)
<223> n = g, a, c or t/u

<400> 162
aatttatctc ttatccagag cnnnggtaga gggannctga nnnncccttt gaagccnnnc 60
agcaacctac acnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnatataann nnnnnnnnnn 120
nnnnnnnnnn nnnnnnnnnn gtgaaaggtg ctaannntct gnnnttgcag gagnnnnnnn 180
nnntaatatn nnnnnnnnnn ctcctgaacg atgagagcaa aggtataatt atannnnnnn 240
nnnnnnnnnn nnnnnnnnnn nnnnnnnngc ctttctctat tcgtgcgcgn tttnncgtgc 300
aaaatagaga gaggcttttt atatgagacg tatttggaga gaactaaagg aggaaaataa 360
aattggctaa aaaccgtcat ctatttacat cggaatcggt ttctgatgga catccagata 420
aaattgcaga tcaaatatct gatgcaattt tagatgcaat tatttcaaaa gatccggacg 480
cacgtg                                                           486


<210> 163
<211> 486
<212> DNA
<213> Listeria innocua

<220>
<221> misc_feature
<222> (22)...(306)
<223> n = g, a, c or t/u

<400> 163
taaattactc ttattatgag tnnnggtaga gggannctgg nnnncccgtt gaaaccnnnc 60
agcaaccttt caannnnnnn nnnnnnnnnn nnnnnnnnnn nnnttcgnnn nnnnnnnnnn 120
nnnnnnnnnn nnnnnnnnnt tgaaaaggtg ctaaatncct gnnnnnncga agtgnnnnnn 180
nnnnntgann nnnnnnnnnt gcttcgagag ataagagaga cttaaaaagt ttcactgtat 240
ttgtgtatcg aaacttccaa annnnnnncc tctctagnnn nnnnnnnnnt tctnnnnnnn 300
nnnnnnctag ggaggttttt tattggcaaa aaattgagag gataaggtga taggtatggt 360
aaaggcgatt agttcaaact tggggtatcc gagacttggg gagaaacgtg aatggaaacg 420
tgcgctagaa aagttttgga atggtgcgat ttcagaagag gaattattgg cggaaacaaa 480
agctct                                                           486

<210> 164
<211> 486
<212> DNA
<213> Listeria innocua

<220>
<221> misc_feature
<222> (22)...(304)
<223> n = g, a, c or t/u

<400> 164
tgtagaaatc ttatccagag tnnnggtgga gggannaatg nnnncccctgt gaaaccnnnc 60
agcaacctaa acaataannn nnnnnnnnnn nnnnnnnnnn nnnttcannn nnnnnnnnnn 120
nnnnnnnnnn nnnnttatgt gtttaaggtg ctaagtncat gnnnnnncag aacaannnnn 180
nnnncgatnn nnnnnnnntt gttctgaaag atgagaagga agttagccca tttgaaaaaa 240
tgctnnnnnn nnnnnnnnnn nnnnnnnngc ctttctgctn nnnnnnnnnc attnnnnnnn 300
nnnnagcagg aaggcttttt tgtatatcag aatgtagaaa aggtgataga gatgattacg 360
ttacagaacg tcgtaaaaga atatacgtcc agaaataaca aagttctcgc agtcgaccat 420
gtcgatttag aaattgaaca aggtgagatt ttcggagtag ttggttattc aggggctggt 480
aaaagt                                                           486
```

```
<210> 165
<211> 486
<212> DNA
<213> Staphylococcus aureus

<220>
<221> misc_feature
<222> (21)...(304)
<223> n = g, a, c or t/u

<400> 165
ttcatatttc ttattgtgag nnnaagttga gggacnttgg nnnnccctgt gatacttnnc 60
agcaaccgac tnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnttatnnn nnnnnnnnnn 120
nnnnnnnnnn nnnnnnnnnn nagcacggtg ctaaaancca annnnnncga gnnnnnnnnn 180
nnnnnttann nnnnnnnnnn nnctcgaatg ataagtataa agannnnnnn nnnnnnnnnn 240
nnnnnnnnnn nnnnnnnnnn nnnnnnnnct tcttacttn nnnnnnnnnt caatnnnnnn 300
nnnnagggtg agaagttttt ttgtttaagg aggaaagaac aatgacaaat tacacagtag 360
atactttaaa tctagggaaa tttattacag aatctgggga agtcatagat aacttgcgtt 420
tgagatatga gcatgttggt tatcatggac aaccattagt tgtagtttgt catgcattaa 480
ctggca                                                            486
```

```
<210> 166
<211> 486
<212> DNA
<213> Staphylococcus aureus

<220>
<221> misc_feature
<222> (22)...(300)
<223> n = g, a, c or t/u

<400> 166
gcgtaaactc ttatcgagag tnnnggtgga ggganntgtg nnnnccctac gaagccnnnc 60
ggcaaccgtc ttnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnatatann nnnnnnnnnn 120
nnnnnnnnnn nnnnnnnnnn ngaaatggtg ccaattncac annnnnntaa agtnnnnnnn 180
nnnntttann nnnnnnnnnn acttttgaag atgagagaaa caatactact atnnnnnnnn 240
nnnnnnnnnn nnnnnnnnnn nnnnnnnntg ctttctcaat tttnnnnntc tatcnnnnnn 300
gatattgaga aagcattttt tattttatta agcaacacag ggaggaatca acgtgattga 360
attaaaagaa gttgttaaag aatatcggac taaaaataaa gaagtccttg ctgtagatca 420
cgttaattta tcgattcgag caggatcgat ttatggcgtc attggttttt ctggagcagg 480
aaaaag                                                            486
```

```
<210> 167
<211> 486
<212> DNA
<213> Staphylococcus aureus

<220>
<221> misc_feature
<222> (22)...(301)
<223> n = g, a, c or t/u
```

<400> 167
```
acggattctc ttatcctgag tnnggtgga gggacnatgg nnnacccaat gaaaccnnnc 60
agcaacctct tttnnnnnnn nnnnnnnnnn nnnnnnnnnn nnntttatnn nnnnnnnnnn 120
nnnnnnnnnn nnnnnnnnaa aagaaaggtg ccaaannccg tnnnttgcag acnnnnnnnn 180
nnnaaatagn nnnnnnnnnn ngtctgaacg ataagagcga atggacgtat tannnnnnnn 240
nnnnnnnnnn nnnnnnnnnn nnnnnnnngg ccttctctct atnnnnnnna ttannnnnnn 300
natagttaga aggtcttttt tatttagctc acagagagag aattttcgta atataaattt 360
aaaggagcaa actatgttaa ataacaaacg attatttact tcagagtctg ttacagaagg 420
acacccagat aaaatcgctg accaagtgtc agatgcaata ttagatgcta ttttaaaaga 480
cgaccc                                                        486
```

<210> 168
<211> 486
<212> DNA
<213> Staphylococcus aureus

<220>
<221> misc_feature
<222> (21)...(302)
<223> n = g, a, c or t/u

<400> 168
```
taagcatcac ttatctagag nnnaggtgga gggannctgg nnnnccctat gaagcctnnc 60
ggcaacatnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnctcgann nnnnnnnnnn 120
nnnnnnnnnn nnnnnnnnnn nnnnnatgtg ccaattncca gnnnnnntaa ccgnnnnnnn 180
nnnnntaann nnnnnnnnnn tggtttgaag ataagcaggt aaagcacatg aaannnnnnn 240
nnnnnnnnnn nnnnnnnnnn nnnnnnnnac ctctttcttc annnnnnnnt cgttnnnnnn 300
nntgtgagaa agaggtattt ttaattggaa agcaggtaaa aaggatggaa gtacataaaa 360
agagcaatgc ttgggcatta ttcccccttgt tattatttgt ggcgttgttt ttaggcgtag 420
gtattatcac aggtgatttt acttcaatgc cattaaatgt tgcaattacg ataacggtaa 480
ttgtgg                                                        486
```

<210> 169
<211> 486
<212> DNA
<213> Streptomyces coelicolor

<220>
<221> misc_feature
<222> (21)...(315)
<223> n = g, a, c or t/u

<400> 169
```
ttcataccgc tcatccagag nnngggcaga gggatnacgg nnnncccgat gaagcccnnc 60
ggcaaccctc cagtcggnnn nnnnnnnnnn nnttcttgtc acacggacgt ggcgaggctc 120
nnnnnnnnnn nnnnccggct agggaaggtg ccaaatnccg tnnnnnnctc acggcgnnnn 180
nnnnagatgn nnnnnnncgt cgtgaggaag atgaggagaa agggcctcgc ctccatggct 240
gtgcagactg ccgaaacctc cacgaaccnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 300
nnnnnnnnnn nnnnccacc gacgccgccg tcgacctcgg ccccgccacc gcgctgagct 360
gccgggagtg cggccacagg gttccgctcg daccggtctt cgcctgcgaa gagtgtttcg 420
gcccccctcga gatcgcctac gacttctcgg actacgacgc cgaagagctg cgcaagcgga 480
tcgaag                                                        486
```

<210> 170
<211> 486
<212> DNA
<213> Chlorobium tepidum

```
<220>
<221> misc_feature
<222> (21)...(200)
<223> n = g, a, c or t/u

<400> 170
tttcgagcta tcatccagaa nnnaggcgga gggannctgg nnnccctgc gaagcctnnt 60
ggcaaccttc atnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnntccacnn nnnnnnnnnn 120
nnnnnnnnnn nnnnnnnnnn atgagcggtg ccaaatncca tnnnnnnccc ggannnnnnn 180
nnnnggaaan nnnnnnnnnn tccgggaaag atgatgtatg cattcctgct gatttcatac 240
ctcacttgat gcttcccgca catacctcct gaccccgacc gcgcactacg gatcgagcgc 300
ttcaaccttg taccatttgc catgagtgag ataacacct tccggttcga gaccttgcag 360
gttcacgccg ggcaggagcc tgatccggtg accggatcgc gcgccgtgcc catttaccag 420
accacctcct acgtgttcga gaacgccgag cacggcgctg acctgttcgc gcttcgcaag 480
gcgggc                                                            486


<210> 171
<211> 486
<212> DNA
<213> Thermoanaerobacter tengcongensis


<220>
<221> misc_feature
<222> (22)...(307)
<223> n = g, a, c  or t/u

<400> 171
taacacgctc ttatcaagag annnggtgga gggaanagag nnnncccgat gaaaccnnnc 60
ggcaacctgt cctnnnnnnn nnnnnnnnnn nnnnnnnnnn nnntttaann nnnnnnnnnn 120
nnnnnnnnnn nnnnnnnnnn ggataaggtg ccaattnctc tnnnnnncag aagannnnnn 180
nnnnttttttn nnnnnnnnnt cttctgaaag atgagggtat gnnnnnnnnn nnnnnnnnnn 240
nnnnnnnnnn nnnnnnnnnn nnnnnnnncc tcttctnnnn nnnnnnnnnn tttnnnnnnn 300
nnnnnnnaga aggggtttta ttttgctctt aaggagggaa gaagatgcgt agactcttta 360
cttctgagtc agtcactgaa gggcatcctg acaagatctg tgaccagatt tcagatgcca 420
ttttggatga aattttaaaa aaagacccct acgcccgcgt ggcatgtgag acagctgtaa 480
ctaccg                                                            486


<210> 172
<211> 486
<212> DNA
<213> Thermoanaerobacter tengcongensis


<220>
<221> misc_feature
<222> (22)...(307)
<223> n = g, a, c or t/u

<400> 172
ttaaaatctc ttatcaagag annnggtgga gggannctgg nnnncccgat gaaaccnnnc 60
ggcaaccagc cnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnttagnnn nnnnnnnnnn 120
nnnnnnnnnn nnnnnnnnnn nggcatggtg ccaattncct gnnnnnncag cgnnnnnnnn 180
nnnngtttnn nnnnnnnnnn ncgctgaaag atgagagatt cttgtannnn nnnnnnnnnn 240
nnnnnnnnnn nnnnnnnnnn nnnnnnnngt ctcttcnnnn nnnnnnnntt ttagcnnnnn 300
nnnnnnngaa gggacttttt tattttttaaa aaaggagggg cattaaatgt tgaaaaatga 360
aaagctgtgt aataaactta aagaaaagaa atttgtaata actgtggaaa tttctcccc 420
caaagggata gatgtaacta aaactatcga ggaagctcga aaacttaaag gtgtggcaga 480
tgctct                                                            486
```

<210> 173
<211> 486
<212> DNA
<213> Thermoanaerobacter tengcongensis

<220>
<221> misc_feature
<222> (22)...(299)
<223> n = g, a, c or t/u

<400> 173
ctcaatcctc ttatcaagag tnnnggtgga gggannctgg nnnncccgat gaaaccnnnc 60
ggcaaccggc acnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnngtaannn nnnnnnnnnn 120
nnnnnnnnnn nnnnnnnnnn gtgcttggtg ccaattncct gnnnnnncag gttgggnnnn 180
nnnngttann nnnnnnnccc agcctgagag atgagaggag aggccgagta attgtgannn 240
nnnnnnnnnn nnnnnnnnnn nnnnnnnntt actaggccct cttcnnnnnt cattnnnnng 300
aagagggcct aagaattttt ctggaggtgc aaaatgaggg taaagattgg gttgatggga 360
cttggaactg ttgggacagg agtatttaaa atagttaatt ctagagggag atatatcaag 420
gagagtacgg gattttatcc ggagataaag aaagtgcttg tgaaggattt gcacaaaaag 480
agaaaa 486

<210> 174
<211> 486
<212> DNA
<213> Fusobacterium nucleatum

<220>
<221> misc_feature
<222> (21)...(307)
<223> n = g, a, c or t/u

<400> 174
tggaaataaa ccatcaagag nnnagattga gggganncagg nnnncccgtt gagatctnnc 60
agcaacctac gnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnntaaaann nnnnnnnnnn 120
nnnnnnnnnn nnnnnnnnnn ntgtgtggtg ctaattncct gnnnnnnnnn nnnnnnnnnn 180
nnnnnnnnnn nnnnnnnnnn nnnnnnatag atggaaaaga ttataataca tctnnnnnnn 240
nnnnnnnnnn nnnnnnnnnn nnnnnnnnct ctatctnnnn nnnnnnnngg aattnnnnnn 300
nnnnnnngga tagagttttt ttattttaat attttgttaa ttttttaagg agggaaaaat 360
gaaaaagttt acatacttta catcagaatt tgtttcacca ggacatccag ataaaatttc 420
agatcaaata tcagatgcaa ttttagatgc ttgtttaaaa gatgacccta attcaagagt 480
tgcctg 486

<210> 175
<211> 486
<212> DNA
<213> Fusobacterium nucleatum

<220>
<221> misc_feature
<222> (21)...(307)
<223> n = g, a, c or t/u

```
<400> 175
aaataaataa ccatccagag nnnaaacgga gggannctgg nnnncccaat gatgtttnnc 60
agcaacctac nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnttaaatnn nnnnnnnnnn 120
nnnnnnnnnn nnnnnnnnnn nngtgtggtg ctaattncca gnnnnnnnnn nnnnnnnnnn 180
nnnnnnnnnn nnnnnnnnnn nnnnnnagag atggagagga aaattgaaac aagaactaan 240
nnnnnnnnnn nnnnnnnnnn nnnnnnnntc catactnnnn nnnnnnnnct ataannnnnn 300
nnnnnnnggt atggatttttt taattaagta agaatttatt atagaaagta gggatataaa 360
tgattacact tgaaaatgta aataaaattt attccaataa cttgcatgct gtaaaagatg 420
ttaatttaaa agttaatgaa ggagatatct ttggaattat aggtttaagt ggtgctggaa 480
aatctt                                                            486
```

```
<210> 176
<211> 486
<212> DNA
<213> Deinococcus radiodurans

<220>
<221> misc_feature
<222> (22)...(268)
<223> n = g, a, c or t/u
```

```
<400> 176
agggtcacct ttatccagag tnncggcgca gggacnctgg nnnccccatg accgccgnnc 60
agcaaccggc cnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nctcatcacn nnnnnnnnnn 120
nnnnnnnnnn nnnnnnnnnn ggcagcggtg ctnnttncca gnnnannccc gcgcgagcag 180
cgcccgacga tgggcggcgc cgcgggaacg ataaaggaag gcgggtcctc ttcgcgggtt 240
ccaacggacg gctcagcccn nnnnnnnntg ggcgtcccct tccagacttc ttttcgtcca 300
ggaaggggac gcccgttttg ggccgacctc tccgctctcc ccaccggagg cccgcccccgt 360
gaccttaccg tcctccccccc cagccttgca cttcgaaggc gtcagcaaaa cctaccccgg 420
ccagccggcg ccggcgctga gcgatttgac cctcaccgtt gcgcgcggca gccgcaccgg 480
catcat                                                            486
```

```
<210> 177
<211> 486
<212> DNA
<213> Deinococcus radiodurans

<220>
<221> misc_feature
<222> (22)...(315)
<223> n = g, a, c or t/u
```

```
<400> 177
ccgtgcgcgg tcatccagag tnncgcccca gggtgntttc ctgncccgcc tacggcgnnc 60
agcaaccggc cnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nttcatcacn nnnnnnnnnn 120
nnnnnnnnnn nnnnnnnnnn ggtcacggtg ctnnttncag gaaannnggg ccgtttaggt 180
gcgccgacga tggcgcgagn cggcccnnng atgcccgcca ggaggtgcat ttccaaccat 240
gagccatcac ccagaagcgt cggcttccnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 300
nnnnnnnnnn nnnnngccaa tccgtccatc aaccatcaac cgtccaccat caccgaggcc 360
gcccgccagc gcatcctgat tctcgacggc gcctggggta cgcagcttca gcgagccaac 420
ctcaccgaag cggacttccg ctgggacgaa gccgacccca cgcggatgta ccggggcaac 480
ttcgac                                                            486
```

```
<210> 178
<211> 486
<212> DNA
<213> Xanthomonas axanopodis
```

```
<220>
<221> misc_feature
<222> (21)...(315)
<223> n = g, a, c or t/u

<400> 178
cctagcctca ccatcgagac nnncggcgga ggganncagg nnnncccttt gatgccgnng 60
ggcagccagc ggagcgcnnn nnnnnnnnnn nnnnnnnnnn nnngcaannn nnnnnnnnnn 120
nnnnnnnnnn nnnngcgtcc gcgtttggtg ccaaatncct gnnnnnncgg ggacnnnnnn 180
nnnctccgcn nnnnnnnngt ccgccgaaag atggttcgaa tcgtgccttg cgcacgtcga 240
acgcgagctc cngcgaagct cgatggccnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 300
nnnnnnnnnn nnnnngatcc accctggata ccgccatgag cctcgtgaat actgcatcgc 360
cgtctaccaa cgatttcgtt gacacccccg ccagcagcga cgacggcatc actgccgtgc 420
gcggcgaact tgtcatcgcc ctgccgatgc gccatgccgg catgcgcgag ctgcggctgc 480
gctatg                                                          486


<210> 179
<211> 486
<212> DNA
<213> Xanthomonas campestris


<220>
<221> misc_feature
<222> (21)...(315)
<223> n = g, a, c or t/u

<400> 179
cgtagcctca ccatcgagac nnncggcgga ggganncagg nnnncccttt gatgccgnng 60
ggcagccagc ggagcgcnnn nnnnnnnnnn nnnnnnnnnn nnngcaannn nnnnnnnnnn 120
nnnnnnnnnn nnnngcgccc gcgtttggtg ccaaatncct gnnnnnncgg ggacnnnnnn 180
nnnctccgcn nnnnnnnngt ccgccgaaag atggttcgaa tcgtgccctc tgcacgtcga 240
acgcgagctc ccgcgaagct cgatggccnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 300
nnnnnnnnnn nnnnngatcc accccggata tcgccatgag cctcgtgacc acagcatcgc 360
cactcaccac cgctgacacc tacacgcccg ccgctgatag cgacgccccg cctgccgtgc 420
gcggcgagct cgtcatcaat ctaccgatgc gccacgccgg ccaacgcgag ctgcgcctgc 480
gctacg                                                          486


<210> 180
<211> 486
<212> DNA
<213> Staphylococcus epidermidis


<220>
<221> misc_feature
<222> (21)...(304)
<223> n = g, a, c or t/u

<400> 180
ttacctaacc ttattttgag nnnaagctga gggatnttgg nnnncccata gaagcttnnc 60
agcaaccgac tnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnttaaatnn nnnnnnnnnn 120
nnnnnnnnnn nnnnnnnnnn nagcacggtg ctaatancca annnnnncga gnnnnnnnnn 180
nnnnncaann nnnnnnnnnn nnctcgaatg ataagtacga taannnnnnn nnnnnnnnnn 240
nnnnnnnnnn nnnnnnnnnn nnnnnnnngt gcctttacat cnnnnnnnna tttnnnnnnn 300
nnnngagtaa ggcacttttt tagttgaagg aggtaggaac tattatgacg aattacacgg 360
ttaatacatt agaactaggt gagtttaaaa ctgaatctgg tgaaacgatt gatcatttac 420
gtctacgtta tgaacatgta ggacttcctg gtcaacccct tgtcgttgtt tgccatgcac 480
ttactg                                                          486
```

```
<210> 181
<211> 486
<212> DNA
<213> Staphylococcus epidermidis

<220>
<221> misc_feature
<222> (22)...(486)
<223> n = g, a, c or t/u

<400> 181
acggattctc ttatcctgag tnnggtgga gggacnatgg nnnacccaat gaaaccnnnc 60
agcaacctct ttnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnatttnnn nnnnnnnnnn 120
nnnnnnnnnn nnnnnnnnnn aaagaaaggt gccaaanccg tnnnttgcag acnnnnnnnn 180
nnnaaatatg nnnnnnnnnn ngtctgaacg ataagagcga atggacgttt aagagccttc 240
tctctatcta tannnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 300
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 360
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 420
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 480
nnnnnn                                                          486

<210> 182
<211> 486
<212> DNA
<213> Geobacter sulferreducens

<220>
<221> misc_feature
<222> (21)...(303)
<223> n = g, a, c or t/u

<400> 182
gtagaccttc ttatcaagag nnntggtgga gggannaagg nnnnccctgt gaaaccannc 60
agcaaccggt ccgnnnnnnn nnnnnnnnnn nnnnnnnnnn nnngtagnnn nnnnnnnnnn 120
nnnnnnnnnn nnnnnncgg acgccaggtg ctaaatncct gnnnnnnccc nnnnnnnnnn 180
nnnngaaann nnnnnnnnnn nnngggagcg atgagaggga gcttgtgacc accgacgcgt 240
acannnnnnn nnnnnnnnnn nnnnnnnngg cccttcccg nnnnnnnnnt ttccnnnnnn 300
nnncgggagg gggcctttca ttttcgccgc cgcgcgcacg cgcccgtggg gaatcatgtc 360
cgtcggcatc gtcgaagaac aatccgtcac cttcgaaacg gatctcaggc tggaaagcgg 420
ccggatactg gggcccatca ccctggccta cgagacctac ggccggctga acgccgaccg 480
gtccaa                                                          486

<210> 183
<211> 486
<212> DNA
<213> Geobacter sulferreducens

<220>
<221> misc_feature
<222> (21)...(305)
<223> n = g, a, c or t/u
```

```
<400> 183
acggcttaac ttatcaagag nnncgaccga ggganncagg nnnncccggt gacgtcgnnc 60
ggcaacctcc ccnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnatggnnn nnnnnnnnnn 120
nnnnnnnnnn nnnnnnnnnn ggggaaggtg ccaattncct gnnnnnncga gaccnnnnnn 180
nnnngacann nnnnnnnnng gtttcgggag ataaggaaga gcgtgacacc tcacggtgaa 240
tcgaannnnn nnnnnnnnnn nnnnnnnntc ctcttccgnn nnnnnnnnnc acccnnnnnn 300
nnnnncggaa ggggattttt cattgtggag gaaaccatga acatcgcgac gcaggcagca 360
cagatcggtc tcgactggga tacccgcacc ggggcggtga cggtacccat ctaccagacg 420
gcaaccttcc ggcatccggg attgggccag agcacgggct acgattattc ccgctccggc 480
aacccc                                                            486

<210> 184
<211> 486
<212> DNA
<213> Bacillus anthracis

<220>
<221> misc_feature
<222> (22)...(306)
<223> n = g, a, c or t/u

<400> 184
acacatactc ttatcaagag tnnnggcgga gggannctgg nnnncccgat gatgccnnnc 60
ggcaaccgag cttatgnnnn nnnnnnnnnn nnnnnnnnnn nnnnacgnnn nnnnnnnnnn 120
nnnnnnnnnn nnnnnntata agctaaggtg ctaattncct gnnnnnncaa aatgannnnn 180
nnnngtttnn nnnnnnnntc gttttggaag ataagagagg atcctatttt gtctattcgn 240
nnnnnnnnnn nnnnnnnnnn nnnnnnnngc acctctcnnn nnnnnnntta tttttnnnnn 300
nnnnnngaga ggtgcttttt attttggaac atatatgaag ggggaactat agatgaaaaa 360
agtattatta agcattgtaa gcggagcggt actattatta ggcgcatgta gcgctggttc 420
ggataaagaa gtaaaagcgt tagatgagaa aaagattact gtcggtgtaa caggcgggcc 480
gcatga                                                            486

<210> 185
<211> 486
<212> DNA
<213> Bacillus anthracis

<220>
<221> misc_feature
<222> (21)...(303)
<223> n = g, a, c or t/u

<400> 185
agcaatttac ttatccagag nnnaggtaga gggannctgg nnnncccctat gacacctnnc 60
agcagcgggt tctnnnnnnn nnnnnnnnnn nnnnnnnnnn nngtaatann nnnnnnnnnn 120
nnnnnnnnnn nnnnnnnnng gaacaccgtg ctaattncca gnnnnnncaa gnnnnnnnnn 180
nnnncaagtn nnnnnnnnnn nncttgaaag ataagtgatg ggcctttgtt tattaannnn 240
nnnnnnnnnn nnnnnnnnnn nnnnnnnngc cttgatctta nnnnnnnnnt ttttnnnnnn 300
nnntaggatc aaggcttttt gtattctaaa aagagaaaag ggagtaatgg aaaaagtacg 360
ttcataaaac aaagtaaatt catgtgttta gggggttatg gaagtgtatg taattaaaaa 420
attatcggtt atggtgttca cactatgggt tattacgaca gtgacatttc taattatgca 480
tattat                                                            486

<210> 186
<211> 486
<212> DNA
<213> Bacillus anthracis
```

```
<220>
<221> misc_feature
<222> (21)...(304)
<223> n = g, a, c or t/u

<400> 186
tttactcatt gtatcaagag nnnaggtgga gggannctgg nnnncccttt gaaacctnnc 60
ggcagcaggt tcannnnnnn nnnnnnnnnn nnnnnnnnnn nnntttttnnn nnnnnnnnnn 120
nnnnnnnnnn nnnnnnnnnt gaatactgtg ccacttncct gnnnnnncaa gctnnnnnnn 180
nnnnttatnn nnnnnnnnnn agcttgaaag atagaatgag ggacttcgtt tatatacggg 240
tgcataactt gtacgtaaaa annnnnnntc cctctttctc nnnnnnnnna atacnnnnnn 300
nnnngaaaag agggattttt tatttttcat ttccctcatc atcatccaaa cttaattatt 360
taggaggaaa atcaaatgaa aaagaagttt gtacccggta ttgcatcagt tgtaggagta 420
agtattttat taactggttg cggtagttat aaaaacgaag caagcggagc aaatgcaaaa 480
gacgag                                                          486

<210> 187
<211> 486
<212> DNA
<213> Bacillus anthracis

<220>
<221> misc_feature
<222> (21)...(298)
<223> n = g, a, c or t/u

<400> 187
cgatacattc ttatccagag nnnaggtgga gggannctgg nnnnccctac gatacctnnc 60
agcaacgggt tnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnttttttnn nnnnnnnnnn 120
nnnnnnnnnn nnnnnnnnnn naataccgtg ctaactncca gnnnnnncaa gccnnnnnnn 180
nnnatataaa nnnnnnnnnn ggcttggaag atgagaagat gtgaccgagt acatataann 240
nnnnnnnnnn nnnnnnnnnn nnnnnnnngt gctctccttc ttatcnnttt atggttnnga 300
taagaaggag agcacttttt attttacctc gagagctcta cttcaagttt ttacagcata 360
taggagggggg aaaaatgatt tcttttaata atgtaagtaa agtatatgaa tcaggtgggc 420
aatctgttca tgcggtggag gatgtaacgt tatcagttga gaaaggcgaa atttttggca 480
ttatcg                                                          486

<210> 188
<211> 486
<212> DNA
<213> Bacillus anthracis

<220>
<221> misc_feature
<222> (22)...(305)
<223> n = g, a, c or t/u

<400> 188
gaataattct ttatcaagag annnggcaga gggannccgg nnnncccttt gaagccnnnc 60
agcaacctca gtttnnnnnn nnnnnnnnnn nnnnnnnnnn nnnatacnnn nnnnnnnnnn 120
nnnnnnnnnn nnnnnaaac tgaataggtg ctaattncct gnnnnnncaa aatgcnnnnn 180
nnnnnattnn nnnnnnnngc attttgaaag ataaaacgta actattgtgt acaaaannnn 240
nnnnnnnnnn nnnnnnnnnn nnnnnnnnct catctttcnn nnnnnnnttg atcatnnnnn 300
nnnnngaaag gtgagttttt ttatatttca aaacatatat tggaggtatt taaaatgaaa 360
gtaattgacc tatcacaaac attcgaaaat aatatgtctc aatttcctgg aacaccaaaa 420
atcaatttag aagccattac aagcgttgaa gaaacaggtt atcaagttac agatttccat 480
tctgtc                                                          486
```

<210> 189
<211> 486
<212> DNA
<213> Bacillus anthracis

<220>
<221> misc_feature
<222> (22)...(308)
<223> n = g, a, c or t/u

<400> 189
aatacaaagc ttatcaagag annnagcgga gggaanctgg nnnncccggc gaagctnnnc 60
ggcaacctgc ttnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnatagann nnnnnnnnnn 120
nnnnnnnnnn nnnnnnnnnn aagcaaggtg ctaaatncca gnnnnnncaa aatggnnnnn 180
nnnnnaatnn nnnnnnnncc attttgaaag ataaggtaaa atatattacc gaacagnnnn 240
nnnnnnnnnn nnnnnnnnnn nnnnnnnntc ttttcnnnnn nnnnnnnnga aatgnnnnnn 300
nnnnnnnngg aaagattttt tttatgaata aaaaggggg ctgttcgcgt gagcgtacgg 360
gaacattttg aggaagtgtc tgagagaatt caagcgatgc ttgctgatat gaaatatggt 420
tcaattacaa ttgttgtaca agatggaaaa gtcattcaac tagagaaaag tgaaaaagta 480
cgttta 486

<210> 190
<211> 486
<212> DNA
<213> Bacillus anthracis

<220>
<221> misc_feature
<222> (21)...(305)
<223> n = g, a, c or t/u

<400> 190
tgaaaccttc ttataaagag nnnaggcgga gggannctgg nnnnccctac gatgcctnnc 60
ggcagcggac tcnnnnnnnn nnnnnnnnnn nnnnnnnnnn nngattttan nnnnnnnnnn 120
nnnnnnnnnn nnnnnnnnnn gagtgctgtg ccaaatncca gnnnnnncaa gcnnnnnnnn 180
nnnnatgtnn nnnnnnnnnn ngcttgaaag atgagaagag cgtttcttat agatgtataa 240
nnnnnnnnnn nnnnnnnnnn nnnnnnnnga cctcttctnn nnnnnnnnnc gttnnnnnnn 300
nnnnnggaag aggtctttg ttattcatta gaaaaaaggt tgaaactagg gagagatggt 360
actttgaaag aaacgagagg aaatggtttg gctttattac cacttgggat attttttggcg 420
ctatttatag gttctggaat tattacaggt gatttctata aattgccgat acttgtagca 480
atttca 486

<210> 191
<211> 486
<212> DNA
<213> Bacillus anthracis

<220>
<221> misc_feature
<222> (21)...(306)
<223> n = g, a, c or t/u

```
<400> 191
aaattaatac ttatccagag nnnaggtgga gggaancggn nnnnccctat gaaacctnnc 60
agcaacccct atgtnnnnnn nnnnnnnnnn nnnnnnnnnn nnnaaatnnn nnnnnnnnnn 120
nnnnnnnnnn nnnnnnngca taggaaggtg ctaattnccg nnnnnnncag agaacacnnn 180
nnnnngttnn nnnnnngtgt tttttggaag atgagaggat tcttgaacgt gaaagaaaan 240
nnnnnnnnnn nnnnnnnnnn nnnnnnnntg acctcttnnn nnnnnnnnna tgtnnnnnnn 300
nnnnnnaaga ggtcatttt tgttgtatag aaagggagtg tcgatgcata attcattttc 360
aaaataaata tagagtaata aaagttgact attaagagag gggaattata atgaacagat 420
tatcaacaaa attagtagta gcaatcggaa ttggatcagc attatacggg atattaggac 480
tttggg                                                          486
```

```
<210> 192
<211> 486
<212> DNA
<213> Bacillus anthracis

<220>
<221> misc_feature
<222> (21)...(304)
<223> n = g, a, c or t/u
```

```
<400> 192
atgaaaattc ttatcacgag nnnaggtgga gggannctgg nnnncccctat gaaacctnnc 60
ggcagcggat tcgnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnttannn nnnnnnnnnn 120
nnnnnnnnnn nnnnnnnnnt gaatactgtg ccaattncca gnnnnnncaa gnnnnnnnnn 180
nnnngtaann nnnnnnnnnn nncttgaaag ataagaaaga agctcatttt gactatatat 240
acagaannnn nnnnnnnnnn nnnnnnnngc ctctttctan nnnnnnnnnt ctttnnnnnn 300
nnnntagaaa gaggcttttt tacgtgaaaa taaaaggagg aagaaaaatg ggagcgacag 360
gagtagcgtc acaaagaaaa acaattgaag agagtatcga aagaaataag gaaaagtaca 420
tagaaacaag tcatgatatt catgcgaatc cggagattgg taatcaagaa ttttacgcat 480
ctagaa                                                          486
```

```
<210> 193
<211> 486
<212> DNA
<213> Bacillus anthracis

<220>
<221> misc_feature
<222> (22)...(308)
<223> n = g, a, c or t/u
```

```
<400> 193
gaatattttc ttatccagag annnggtgga gggannctgg nnnncccgat gaaaccnnnc 60
agcaaccgcn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnngatnnn nnnnnnnnnn 120
nnnnnnnnnn nnnnnnnnnn nnngcaggtg ctaattncca gnnnnnncag aacannnnnn 180
nnnnaattnn nnnnnnnnt gttctgggag ataagacgaa gatatatacg taannnnnnn 240
nnnnnnnnnn nnnnnnnnnn nnnnnnnnct tcttcnnnnn nnnnnnnnnt tatcnnnnnn 300
nnnnnnnngg agaggtttt ttattgcaaa aaaaccgatt acgaaaaaat ttatattaag 360
aagaaagggg ttgcgaagta ctgtgacact cgaaaaatac gtaaaactgc gtagtacagt 420
ttatgaatat atgatagagc aagataagcc aatatcattg ttagatattc aagaacatat 480
cgtttc                                                          486
```

```
<210> 194
<211> 486
<212> DNA
<213> Bacillus anthracis
```

```
<220>
<221> misc_feature
<222> (23)...(306)
<223> n = g, a, c or t/u

<400> 194
tatacaactc ttatcaagag cannggtgga gggatnttgg nnnccccgat gaagccnnnc 60
agcaaccgac cnnnnnnnnn nnnnnngtaa taccattgtg aaatggggcg tttatgacgc 120
caaaannnnn nnnnnnnnnn nggcacggtg ctaattncca gnnnnnncag aaagtnnnnn 180
nnnnnaaann nnnnnnnnac tttctggcag ataagagggg agaagataaa cttcaaannn 240
nnnnnnnnnn nnnnnnnnnn nnnnnnnncc tctttctnnn nnnnnnnnnt agtnnnnnnn 300
nnnnnnggaa agaggttttt ctacgtcaga aaaacctctg aatgaaaaaa gggggagaag 360
acgatgggat attattcatt aacagaagta accgctgtac aatatgcgaa agaacatggt 420
tattttgaaa agaaagcaaa tgtagtttgt catgaaattg gagatggaaa tttaaattat 480
gtgttc                                                          486

<210> 195
<211> 486
<212> DNA
<213> Bacillus anthracis

<220>
<221> misc_feature
<222> (23)...(309)
<223> n = g, a, c or t/u

<400> 195
taaatacttc ttatcaagag cannggtgga ggganncgag nnnccccgac gaaaccnnnc 60
ggcaaccgat ctacannnnn nnnnnnnnnn nnnnnnnnnn nnntaatnnn nnnnnnnnnn 120
nnnnnnnnnn nnnnnnntgt agacacggtg ctaattnctc gnnnnnncag cnnnnnnnnn 180
nnnnattacn nnnnnnnnnn nngctgacag ataaggagct ggttgtaaaa aaannnnnnn 240
nnnnnnnnnn nnnnnnnnnn nnnnnnnncc tctcnnnnnn nnnnnnnnct tagctnnnnn 300
nnnnnnnnng agaggttttt ttatttaact aggaggttat aacaatgagc ggaattatag 360
cgacgtattt aatccatgat gattcacata acttagaaaa aaaagctgag caaattgcac 420
tcggtttaac aattggctct tggactcatt tgccacactt attgcaagaa cagttaaagc 480
agcata                                                          486

<210> 196
<211> 486
<212> DNA
<213> Bacillus anthracis

<220>
<221> misc_feature
<222> (21)...(308)
<223> n = g, a, c or t/u

<400> 196
acgaacattc ttatctagag nnnaggtaga gggannctgg nnnncccctat gacgcctnnc 60
agcaaccatt aacnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnatttnnn nnnnnnnnnn 120
nnnnnnnnnn nnnnnnnngt taataaggtg ctaattncca gnnnnnncaa attnnnnnnn 180
nnngcgaaan nnnnnnnnnn aatttgacag atgagaagaa gactctattc aaaccgaaan 240
nnnnnnnnnn nnnnnnnnnn nnnnnnnngc cttctnnnnn nnnnnnnnnt cttnnnnnnn 300
nnnnnnnnag aaggcttttt ttattttata ttcaactact ggttcaattt aaaaaggagg 360
aatttttaca tgtcaactat cgaaacaaaa ctagcgcaaa tcggaaaccg gagtgaaact 420
acaacaggaa ctgttaatcc gcctgtttac ttttcaactg cttatcgtca cgaaggaatt 480
ggtaaa                                                          486
```

```
<210> 197
<211> 486
<212> DNA
<213> Bacillus anthracis

<220>
<221> misc_feature
<222> (22)...(304)
<223> n = g, a, c or t/u

<400> 197
aagacaactc ttattgagag cnnggtgga gggannaagg nnnccctgt gaaaccnnnc  60
ggcaaccttc aaacnnnnnn nnnnnnnnnn nnnnnnnnnn nnngaaatnn nnnnnnnnnn  120
nnnnnnnnnn nnnnnnngtt tgaaacggtg ctaatancct gnnnnnncaa aacnnnnnnn  180
nnnngaatnn nnnnnnnnnn gttttgcata ataagaggag gaacaattat gttnnnnnnn  240
nnnnnnnnnn nnnnnnnnnn nnnnnnnncc cctcttcann nnnnnnnnnn aagnnnnnnn  300
nnnntgaaga ggggtttttt atattgatag aaatgaggga gatttgtgaa attactagat  360
ttattgtcaa aaggaattgt aataggtgat ggtgcggttg gaacattatt acattcacac  420
ggtttgcaaa gtagttttga agaattgaat atatctgatc cagatttaat tatatcgatt  480
cataag                                                             486
```

```
<210> 198
<211> 486
<212> DNA
<213> Bacillus anthracis

<220>
<221> misc_feature
<222> (23)...(304)
<223> n = g, a, c or t/u

<400> 198
ggatactctc ttatcccgag ctnnggcgga ggganncagg nnncccgat gaagccnnnc  60
agcaacctca cttgtannnn nnnnnnnnnn nnnnnnnnnn ngtggtaaan nnnnnnnnnn  120
nnnnnnnnnn nnnntacagg tgaataggtg ctaaaancct gnnntgncga ggctnnnnnn  180
nnnnnacann nnnnnnnnng gtctcgaacg ataagagcga agggcaaaaa gcagtatgca  240
agtagcaaat taaannnnnn nnnnnnnncc tttcctctnn nnnnnnnat ataannnnnn  300
nnnnagtagg aaaggttttt ctgtatgctt gtgtgggaga ataaatgtat gtcgcaatct  360
gtggcaaatt aaggatgagt tccgtacaat atatacaatt actgtaggga ggtttaccac  420
atgacaaaaa aacgtcatct gttcacatct gagtctgtaa ctgaaggaca tccagataaa  480
atttgt                                                             486
```

```
<210> 199
<211> 486
<212> DNA
<213> Bacillus anthracis

<220>
<221> misc_feature
<222> (22)...(304)
<223> n = g, a, c or t/u
```

<400> 199
ctgatttctc ttatcaagag annnggtgga gggacntgtg nnnnccctgt gaagccnnnc 60
ggcaaccgtc aacnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnttatnnn nnnnnnnnnn 120
nnnnnnnnnn nnnnnnnngt tgaaatggtg ccaattncct gnnnnnncaa agcnnnnnnn 180
nnnnaaatgn nnnnnnnnnn nctttgagag atgagagaga gggataatgt tgttatatac 240
gcatataaan nnnnnnnnnn nnnnnnnncc tttctgcttn nnnnnnnnnc tctannnnnn 300
nnnnaagcgg aaaggttttt ttgttgtttg aatgtggagg acattcaaat aataaaagta 360
atgagaacgg tgggctaccg tatcaaaaat aaaaaattgc ggagtcaatc aaaaatctag 420
ctccagcggc tagaacagtc ggtcgtttca tcccttccta tgaggcaaaa agcgcctcta 480
agtctg   486

<210> 200
<211> 486
<212> DNA
<213> Bacillus anthracis

<220>
<221> misc_feature
<222> (22)...(301)
<223> n = g, a, c or t/u

<400> 200
ttgcatagtc ttatcaagaa annaggtgga ggganncagg nnnncccgat gaaacctnnt 60
ggcaacagcc gtnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnatannn nnnnnnnnnn 120
nnnnnnnnnn nnnnnnnnna cggaattgtg ccaaatncct gnnnnnncag gnnnnnnnnn 180
nntaataaat nnnnnnnnnn nncctgagag ataagaaaga gcctttagag cgtgtttca 240
aannnnnnnn nnnnnnnnnn nnnnnnnnct gctcctttct tgnnnnnnnt tttnnnnnnn 300
ncaggaaagg ggcagttttt tattttgtat aaaagaaagg agaatgagaa atgggagaat 360
catgggggaa aggaacgatt tgtgtgcaag gtggctatac gccaaagaat ggagaaccgc 420
gtgttttacc gctttatcaa agcacgacgt ataaatatga tacttcggat gatttagcag 480
cattat   486

<210> 201
<211> 486
<212> DNA
<213> Bacillus cereus

<220>
<221> misc_feature
<222> (21)...(298)
<223> n = g, a, c or t/u

<400> 201
cgatacattc ttatccagag nnnaggtgga gggannctgg nnnncccctac gatacctnnc 60
agcaacgggt tnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnttttttnn nnnnnnnnnn 120
nnnnnnnnnn nnnnnnnnnn naataccgtg ctaactncca gnnnnnncaa gcctnnnnnn 180
nnnnatgaan nnnnnnnnna ggcttggaag atgagaagat gtgaacgagt acatataann 240
nnnnnnnnnn nnnnnnnnnn nnnnnnnngt gctctccttc ttatcnnttt atggttnnga 300
taagaaggag agcacttttt attttacctc gagagctctg cttcaagttt tcacagcata 360
taggaggggga aaaaatgatt tcttttaaca atgtaagtaa agtatatgaa acaggtgggc 420
aatctgttca tgcggtggag gatgtaacat tatcagttga gaaaggcgaa atttttggca 480
ttatcg   486

```
<210> 202
<211> 486
<212> DNA
<213> Bacillus cereus

<220>
<221> misc_feature
<222> (21)...(304)
<223> n = g, a, c or t/u

<400> 202
caaacaattc ttatgttgag nnnaagtgga ggganncggg nnnccctat gaaacttnnc 60
ggcaacctcg tnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnatgagnn nnnnnnnnnn 120
nnnnnnnnnn nnnnnnnnnn acgaaaggtg ccaaatncct gnnnnnncag gtgnnnnnnn 180
nnnaagaaan nnnnnnnnnn cacctgaaag ataagagcgg ttcaattagt caagaagnnn 240
nnnnnnnnnn nnnnnnnnnn nnnnnnnngc tactcttatn nnnnnnnnnt tcgnnnnnnn 300
nnnnataaga gtagcttttt ttatggctaa aagttaaagg gggaataggt agtggagtat 360
ggtttttggt tgccgatttt tggggatgg cttcggaatg taaatgatga atctatgccg 420
cctacgtttg agtatgcaaa acaaacggcg caagcggcag aacaattagg tttttcaaca 480
acactt                                                      486
```

```
<210> 203
<211> 486
<212> DNA
<213> Bacillus cereus

<220>
<221> misc_feature
<222> (22)...(308)
<223> n = g, a, c or t/u

<400> 203
aatacaaagc ttatcaagag annnagcgga gggaanctgg nnnccccggc gaagctnnnc 60
ggcaacctgc ttnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnatagann nnnnnnnnnn 120
nnnnnnnnnn nnnnnnnnnn aagcaaggtg ctaaatncca gnnnnnncaa aatggnnnnn 180
nnnnnaatnn nnnnnnnncc attttgaaag ataaggtaaa atatattacc gaacagnnnn 240
nnnnnnnnnn nnnnnnnnnn nnnnnnnntc ttttcnnnnn nnnnnnnnga aatgnnnnnn 300
nnnnnnnngg aaagattttt tttatgaata aaaaggggg ctgttcgcgt gagcgtacgg 360
gaacattttg aggaagtatc tgagaaaatt gaagcgatgc ttgctgatat gaaatatggt 420
tcaattacaa ttgttgtgca agatggcaaa gtcattcaat tagagaaaag tgaaaaagta 480
cgttta                                                      486
```

```
<210> 204
<211> 486
<212> DNA
<213> Bacillus cereus

<220>
<221> misc_feature
<222> (21)...(305)
<223> n = g, a, c or t/u
```

<400> 204
tgaaaccttc ttataaagag nnnaggcgga gggannctgg nnnnccctac gatgcctnnc 60
ggcagcggac tcnnnnnnnn nnnnnnnnnn nnnnnnnnnn nngatttcan nnnnnnnnnn 120
nnnnnnnnnn nnnnnnnnnn gagtgctgtg ccaaatncca gnnnnnncaa gcnnnnnnnn 180
nnnnatatnn nnnnnnnnnn ngcttgaaag atgagaagag cgtttcttat agatgtataa 240
nnnnnnnnnn nnnnnnnnnn nnnnnnnnga cctcttctnn nnnnnnnnnc gatnnnnnnn 300
nnnnnggaag aggtcttttg ttattcatta gaaaaaggtt gaaactaggg agagatggta 360
ctttgaaaga aacgagagga aatggtttgg cattattacc acttgggata tttttggcgc 420
tatttattgg ttctggaatt attacaggtg atttctataa attgccgata cttgtagcaa 480
tttcaa   486

<210> 205
<211> 486
<212> DNA
<213> Bacillus cereus

<220>
<221> misc_feature
<222> (21)...(306)
<223> n = g, a, c or t/u

<400> 205
aaattaatac ttatccagag nnnaggtgga gggaanncgg nnnnccctat gaaacctnnc 60
agcaacccct atannnnnnn nnnnnnnnnn nnnnnnnnnn nntatattnn nnnnnnnnnn 120
nnnnnnnnnn nnnnnnnnta taggaaggtg ctaattnccg nnnnnnncag agaacacnnn 180
nnnnngatnn nnnnnngtgt tttttggaag ataagaggat tcttgaacgt gaaagaaaan 240
nnnnnnnnnn nnnnnnnnnn nnnnnnnntg acctcttnnn nnnnnnnnna tgtnnnnnnn 300
nnnnnnaaga ggtcattttt tgttgtatag aaagggagtg tcgatgcata attcattttc 360
aaaataaata tagagtaata aaagttgact attaagaggg gagaattgta atgaataaat 420
tatcaacaaa attagtagtg gcaatcggaa ttggagcagc attatacggg atattaggac 480
tttggg   486

<210> 206
<211> 486
<212> DNA
<213> Bacillus cereus

<220>
<221> misc_feature
<222> (21)...(304)
<223> n = g, a, c or t/u

<400> 206
atgaaaattc ttatcacgag nnnaggtgga gggannctgg nnnnccctat gatacctnnc 60
ggcagcggat tcgnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnttannn nnnnnnnnnn 120
nnnnnnnnnn nnnnnnnnnt gaatactgtg ccaattncca gnnnnnncaa gnnnnnnnnn 180
nnnngtaann nnnnnnnnnn nncttgaaag ataagaaaga agctcatttt gactgtatat 240
gcagaannnn nnnnnnnnnn nnnnnnnngc ctctttctan nnnnnnnnnt ctttnnnnnn 300
nnnntagaaa gaggcttttt tatgtgaaaa tataagggg aagaaaaatg ggagcgacag 360
gagtaacgtc acaaagaaaa acaattgaag agagtattga aagaaataag gaaaagtaca 420
tagaaacaag tcacgtatat catgcgaatc cggagattgg taaccaagag ttttacgcat 480
caagaa   486

<210> 207
<211> 486
<212> DNA
<213> Bacillus cereus

70

```
<220>
<221> misc_feature
<222> (21)...(305)
<223> n = g, a, c or t/u

<400> 207
attagttttc ttattaagag nnnagatgga gggannctgg nnnncccgat gaaatctnnc 60
agcaacaggc tnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnataaann nnnnnnnnnn 120
nnnnnnnnnn nnnnnnnnnn nagtactgtg ctaagtncca gnnnnnncaa acgtnnnnnn 180
nnnnatgaan nnnnnnnnng cgtttggaag atgaggggaa atggattaac attcaannnn 240
nnnnnnnnnn nnnnnnnnnn nnnnnnnnct cttcttatnn nnnnnnnnna tgtnnnnnnn 300
nnnnngtaag aagagttttt tatttagaga gggggatag agtgaagttt gatgtaacgt 360
atttttaga aagtttccg caattattta agtatgtata cataacttta ggaattactg 420
tagtttcaat gattatttct tttgttatag ggataggttt ggcgatcata acgaaaaaca 480
aaacga                                                         486

<210> 208
<211> 486
<212> DNA
<213> Bacillus cereus

<220>
<221> misc_feature
<222> (22)...(308)
<223> n = g, a, c or t/u

<400> 208
gaatattttc ttatccagag annnggtgga gggannctgg nnnncccgat gaaaccnnnc 60
agcaaccgcn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnngatnnn nnnnnnnnnn 120
nnnnnnnnnn nnnnnnnnnn nnngcaggtg ctaattncca gnnnnnncag aacannnnnn 180
nnnntattnn nnnnnnnnnt gttctgggag ataagacgaa gatatatacg taannnnnnn 240
nnnnnnnnnn nnnnnnnnnn nnnnnnnnct tcttcnnnnn nnnnnnnnnt tatcnnnnnn 300
nnnnnnnngg agaggttttt ttattgcaaa aaaaccgatt acgaaaattt atattaagaa 360
gaaaggggtt gcgcattact gtgacactcg aaaaatacgt caaactgcgt agtacagttt 420
atgaatatat gatagagcaa gataagccaa tatcattgtt agatattcaa gaacatatcg 480
tttcgc                                                         486

<210> 209
<211> 486
<212> DNA
<213> Bacillus cereus

<220>
<221> misc_feature
<222> (23)...(309)
<223> n = g, a, c or t/u

<400> 209
taaatacttc ttatcaagag cannggtgga ggganncgag nnnncccgac gaaaccnnnc 60
ggcaaccgat ctacnnnnnn nnnnnnnnnn nnnnnnnnnn nnnaattnnn nnnnnnnnnn 120
nnnnnnnnnn nnnnnnnngt agacacggtg ctaattnctc gnnnnnncag cnnnnnnnnn 180
nnnnattacn nnnnnnnnnn nngctgacag ataaggagct ggttgtaaaa aaannnnnnn 240
nnnnnnnnnn nnnnnnnnnn nnnnnnnncc tctcnnnnnn nnnnnnnnct tagctnnnnn 300
nnnnnnnnng agaggttttt ttatttaact aggaggttat aacaatgagc ggaattatag 360
cgacatattt aatccatgat gattcacata acttagaaaa aaaagctgag caaattgcac 420
tcggtttaac aattggctct tggactcatt tgccacattt attgcaagaa caattaaagc 480
agcata                                                         486
```

<210> 210
<211> 486
<212> DNA
<213> Bacillus cereus

<220>
<221> misc_feature
<222> (22)...(304)
<223> n = g, a, c or t/u

<400> 210
agacaaactc ttattgagag cnnnggtgga gggannaagg nnnnccctgt gaaaccnnnc 60
ggcaaccttc aaacnnnnnn nnnnnnnnnn nnnnnnnnnn nnngaaatnn nnnnnnnnnn 120
nnnnnnnnnn nnnnnnngtt tgaaacggtg ctaatancct gnnnnnnncaa aacnnnnnnn 180
nnnngaatnn nnnnnnnnnn gttttgcata ataagaggag gatcgattat gtnnnnnnnn 240
nnnnnnnnnn nnnnnnnnnn nnnnnnnncc ccctcttcan nnnnnnnnnn aagnnnnnnn 300
nnnntgaaga gggggttttt atattgatag aaatgaggga gatttgtgaa attactagat 360
ttattatcaa aaggaattgt aataggtgat ggtgcggttg ggacgttatt acattcacat 420
ggtttacaaa gtagttttga agaattgaat atatctgatc cagatttaat tatatcgatt 480
cataag 486

<210> 211
<211> 486
<212> DNA
<213> Bacillus cereus

<220>
<221> misc_feature
<222> (21)...(308)
<223> n = g, a, c or t/u

<400> 211
acgaacattc ttatctagag nnnaggtaga gggannctgg nnnnccctat gacgcctnnc 60
agcaaccatt aacnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnatttnnn nnnnnnnnnn 120
nnnnnnnnnn nnnnnnnngt taataaggtg ctaattncca gnnnnnncaa attnnnnnnn 180
nnngtgaaan nnnnnnnnnn gatttgacag atgagaagaa gactctattc aaaccgaaan 240
nnnnnnnnnn nnnnnnnnnn nnnnnnnngc cttctnnnnn nnnnnnnnnt cttnnnnnnn 300
nnnnnnnnag aaggcttttt tattttatat tcaactaatg gttcaattta aaaaggagga 360
attttcacat gtcaactatc gaaacaaaat tagcgcaaat cggaaaccgg agtgaaacta 420
caacaggaac tgttaatcca cctgtttatt tttcaactgc ttatcgtcac gaaggaattg 480
gtaaat 486

<210> 212
<211> 486
<212> DNA
<213> Bacillus cereus

<220>
<221> misc_feature
<222> (23)...(306)
<223> n = g, a, c or t/u

<400> 212
tatacaactc ttatcaagag cannggtgga gggatnttgg nnnccccgat gaagccnnnc 60
agcaaccgac cnnnnnnnnn nnnnnngtaa taccattgtg aaatggggcg tttatttacg 120
ccaaaannnn nnnnnnnnn nggcacggtg ctaattncca gnnnnnncag aaagtnnnnn 180
nnnnnaaann nnnnnnnnac tttctggcag ataagagggg agaagataaa cttcaaannn 240
nnnnnnnnnn nnnnnnnnnn nnnnnnnncc tctttctnnn nnnnnnnnnt agtnnnnnnn 300
nnnnnnggaa agaggttttt ctacgtcaga aaaacctctg aatataaaaa aggggggagaa 360
gacgatggga tattatgcat taactgaaac aacagctata caatatgcga aagaacacgg 420
ttattttgaa aagaaagcaa atgtattttg tcatgaaatt ggagatggaa atttaaatta 480
cgtgtt 486

<210> 213
<211> 486
<212> DNA
<213> Bacillus cereus

<220>
<221> misc_feature
<222> (23)...(307)
<223> n = g, a, c or t/u

<400> 213
ggatactctc ttatcccgag ctnnggcgga gggganncagg nnnccccgat gaagccnnnc 60
agcaacctca cttgtnnnnn nnnnnnnnnn nnnnnnnnnn attggtaaac nnnnnnnnnn 120
nnnnnnnnnn nnnnnacaag tgaataggtg ctaaaancct gnnntgncga ggctnnnnnn 180
nnnnnacann nnnnnnnnng gtctcgaacg ataagagcga agggcaaaaa gcagtatgca 240
agtagcaaat taaannnnnn nnnnnnnncc tttcctnnnn nnnnnnctct attatgtnnn 300
nnnnnnnagg aaaggttttt ctgtatgctt gtgtgggaga ataaatgtat gtcgcaatct 360
gtggcaaatt aaggatgagt tccgtacaat atatacaatt actgtaggga ggtttaccac 420
atgacaaaaa aacgtcatct gttcacatct gagtctgtaa ctgaaggaca tccagataaa 480
atttgt 486

<210> 214
<211> 486
<212> DNA
<213> Bacillus cereus

<220>
<221> misc_feature
<222> (22)...(304)
<223> n = g, a, c or t/u

<400> 214
ctgatttctc ttatcaagag annnggtgga gggacntgtg nnnnccctgt gaagccnnnc 60
ggcaaccgtc aacnnnnnnn nnnnnnnnnn nnnnnnnnnn nnntttatnn nnnnnnnnnn 120
nnnnnnnnnn nnnnnnnngt tgaaatggtg ccaattncct gnnnnnncaa agcnnnnnnn 180
nnnnaaatnn nnnnnnnnnn gctttgagag atgagagaga gggataatgt tgttatatac 240
gcacataaan nnnnnnnnnn nnnnnnnncc tttctgcttn nnnnnnnnnc tctannnnnn 300
nnnnaggcag aaaggttttt ttgttgtttg aatgtggagg acattcaaat aataaaagta 360
gtgataacgg tggactacac gcattaaaca taaaaaattg cggagtcgat ccaaacaaaa 420
aagggggtgat acaccatgat tctattagag aatgtaaaga aaatatataa agcaaaaagc 480
ggtgat 486

73

<210> 215
<211> 486
<212> DNA
<213> Bacillus cereus

<220>
<221> misc_feature
<222> (22)...(301)
<223> n = g, a, c or t/u

<400> 215
ttgcatagtc ttatcaagaa annaggtgga ggganncagg nnnncccgat gaaacctnnt 60
ggcaacagcc gtnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnatannn nnnnnnnnnn 120
nnnnnnnnnn nnnnnnnnna cggaattgtg ccaaatncct gnnnnnncag gnnnnnnnnn 180
nntaataaac nnnnnnnnnn nncctgagag ataagaaaga gcctttagag cgtgttttca 240
aannnnnnnn nnnnnnnnnn nnnnnnnnct gctcctttct tgnnnnnnnt tttnnnnnnn 300
ncaggaaagg ggcagttttt tattttgtat aaaagaaagg agaataagag atgggagaat 360
catgggggaa aggaacaatt tgcgtgcaag gtggctatac gccaaagaat ggtgaaccgc 420
gtgttttacc gctttatcaa agtacaacgt ataaatacga tacttcggat gatttagcag 480
ccttat 486

<210> 216
<211> 486
<212> DNA
<213> Bacillus cereus

<220>
<221> misc_feature
<222> (21)...(304)
<223> n = g, a, c or t/u

<400> 216
tttactcatt gtatcaagag nnnaggtgga gggannctgg nnnncccttt gaaacctnnc 60
ggcagcaggt tcannnnnnn nnnnnnnnnn nnnnnnnnnn nnnttttnn nnnnnnnnnn 120
nnnnnnnnnn nnnnnnnnnt gaatactgtg ccacttncct gnnnnnncaa gctnnnnnnn 180
nnnnttatnn nnnnnnnnnn agcttgaaag atagaatgag ggacttcgtt tatatacggg 240
tgcataactt gtacgtaaaa annnnnnntc cctctttcnn nnnnnnnntc aatatnnnnn 300
nnnngaaaag agggattttt tattttcat ttccctcatc atcatccaaa cttaattatt 360
taggaggaaa atcaaatgaa aaaaagtttt gtacccggta ttgcatcagt tgtaggagta 420
agtattttat taactggttg cggtagttat aaaaacgaag caagcggagc aaatgcaaaa 480
gacgag 486

<210> 217
<211> 486
<212> DNA
<213> Bacillus cereus

<220>
<221> misc_feature
<222> (22)...(306)
<223> n = g, a, c or t/u

<400> 217
acacatactc ttatcaagag tnnnggcgga gggannctgg nnnncccgat gatgccnnnc 60
ggcaaccgag cttatannnn nnnnnnnnnn nnnnnnnnnn nnnnacgnnn nnnnnnnnnn 120
nnnnnnnnnn nnnnnntata agctaaggtg ctaattncct gnnnnnncaa aacgannnnn 180
nnnngttcnn nnnnnnnntc gttttggaag ataagagagg aatctatttt gtctattcgn 240
nnnnnnnnnn nnnnnnnnnn nnnnnnnngc acctctcnnn nnnnnnntta tttttnnnnn 300
nnnnnngaga ggtgcttttt attttggaac gtatatttaa gggggaatta tagatgaaga 360
aagtattatt aagcattgta agtggggctg tattattatt aagcgcatgt agcgggagtt 420
cagataaaga agtaaaagcg ttagatgaga aaaagattac tgtcggtgta acaggagggc 480
ctcatg 486

<210> 218
<211> 486
<212> DNA
<213> Bacillus cereus

<220>
<221> misc_feature
<222> (21)...(303)
<223> n = g, a, c or t/u

<400> 218
agcaatttac ttatccagag nnnaggtaga gggannctgg nnnncccta t gacacctnnc 60
agcagcgggt tctnnnnnnn nnnnnnnnnn nnnnnnnnnn nngtaatann nnnnnnnnnn 120
nnnnnnnnnn nnnnnnnnng gaacaccgtg ctaattncca gnnnnnncaa gnnnnnnnnn 180
nnnncaagtn nnnnnnnnnn nncttgaaag ataagtgatg ggcctttgtt tattaannnn 240
nnnnnnnnnn nnnnnnnnnn nnnnnnnngc cttgatctta nnnnnnnnnt ttttnnnnnn 300
nnntaagatc aaggcttttt gtattctaaa aagagaaaag ggagtaatgg aaaaagtacg 360
ttcataaaac taagtaaata tatgtgttta gggggttatt ggagtgtatg taattaaaaa 420
attatcagtt atggtgttca cgctatgggt tattcgacg gtgacatttc taattatgca 480
tattat 486

<210> 219
<211> 505
<212> RNA
<213> Agrobacterium tumefaciens

<220>
<221> misc_feature
<222> (24)...(469)
<223> n = g, a, c or t/u

<400> 219
uacuauaugu ggguuucaag guuncuuccg auucnnnnnn nnnnnngcua nnnnnnnnnn 60
nnngguugg gagcunnaag acgggaaunu cggugcguaa cgccnnnauc acnnnnggcg 120
gagcaaggcc gaaacugccc ccgcaacugu gangcggnnn nnnnnnnnnn nnnnnnnnnn 180
nnnnnnnnnn nnnnnnnnnn cgagcaucgu uccgauuugn nnnnnnnnnn nnnnnnnnnn 240
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnag ccacuggagc 300
nnnnnnnnnn nnnnnnnnnn nnnnnnncaa aannnnnnnn nnnnnnnnnn nnnnnnnnnn 360
nnnnnnngcu ccgggaaggc uggaauagau guugugacnn nnnnnnnnnn nnnnnnnnnn 420
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnccgcnna agucaggaga 480
ccugccuuga gcgcaaaugu ccacg 505

<210> 220
<211> 505
<212> RNA
<213> Agrobacterium tumefaciens

```
<220>
<221> misc_feature
<222> (23)...(469)
<223> n = g, a, c or t/u

<400> 220
ccuuauguga gaaagcgacg gunnuccuac agccnnnnnn nnnnnngaaa nnnnnnnnnn 60
nnnggcgaag ggauunnaau angggaacna uggugcgggc gannnnnucu uuunnnnnuc 120
guccaaugcc uuggcugccc ccgcaacugu aangcggauu nnnnnnnnnn nnnnnnnnnn 180
nnnnnnnnnn nnnnnnnnnn nnnnnnngu uguucauccc agugacgcuu gaaggcguca 240
unnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnng ccacuguuuu 300
unnnnnnnnn nnnnnnnnnn nnnnnnnuu cgnnnnnnnn nnnnnnnnnn nnnnnnnnnn 360
nnnnnngaau gcgggaaggc nagaugaggg acgcannnnn nnnnnnnnnn nnnnnnnnnn 420
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn aauccgunng agccaggaga 480
ccugccguca aaauggaaac caucg                                     505


<210> 221
<211> 505
<212> RNA
<213> Agrobacterium tumefaciens

<220>
<221> misc_feature
<222> (24)...(469)
<223> n = g, a, c or t/u

<400> 221
cggauaacau guccgugaug guuccuucc gggnnnnnnn nnnnnncgun nnnnnnnnnn 60
nnnuccgga aggugnnaaa angggaacna cgauagggan nnnnnnnnca aannnnnnnn 120
nuccucauuc guggcugccc ccgcaacugu gangcggnnn nnnnnnnnnn nnnnnnnnnn 180
nnnnnnnnnn nagagccuga aacgaaaugc cacuggcaan nnnnnnnnnn nnnnnnnnnn 240
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnng ccaucucnnn 300
nnnnnnnnnn nnnnnnnnnn nnnngccucc aucaannnnn nnnnnnnnnn nnnnnnnnnn 360
nnnnnnnnnn gggggaaggc aaugccggga aggguguuca gguuuugacn nnnnnnnnnn 420
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnccgunna agccaggaga 480
ccugccauca cggaaauauc caugc                                     505


<210> 222
<211> 505
<212> RNA
<213> Agrobacterium tumefaciens

<220>
<221> misc_feature
<222> (24)...(469)
<223> n = g, a, c or t/u

<400> 222
gacauugguu agccaucgug guucugcgg acnnnnnnnn nnnnnngaag nnnnnnnnnn 60
nnnnnguccg gagcunnaag angggaaunu cggugagggc unnnnnuuaa ucacnnnnna 120
gccugaaucc gaagcugccc ccgcaacugu aangcgnnnn nnnnnnnnnn nnnnnnnnnn 180
nnnnnnnnnn nnnnnnnnnn nnnnacgagc gaaaguccau caunnnnnnn nnnnnnnnnn 240
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnng ucacugaggn 300
nnnnnnnnnn nnnnnnnnnn nnnnnnnncc ggnnnnnnnn nnnnnnnnnn nnnnnnnnnn 360
nnnnnnnncc ucgggaagac nnggaccaaa gcuaugaccn nnnnnnnnnn nnnnnnnnnn 420
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnncgcnna agccaggaga 480
ccugccgcga uagauaacgu ccacg                                     505
```

```
<210> 223
<211> 505
<212> RNA
<213> Agrobacterium tumefaciens

<220>
<221> misc_feature
<222> (24)...(469)
<223> n = g, a, c or t/u

<400> 223
cccauagcuu cuccggucag gugncccgcc nnnnnnnnnn nnnnnncuug cnnnnnnnnn 60
nnnnnnnggc gggagnnaau cngggaaunc cggugannnn nnnnnnnnnn nnnnnnnnnn 120
nnnnaagacc ggaacgugnc ccaacgcugu aanggcnnnn nnnnnnnnnn nnnnnnnnnn 180
nnnnnnnnnn nnnnnnnnnn nnnnnggaug cucuuuuucu caunnnnnnn nnnnnnnnnn 240
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnng ccacugaann 300
nnnnnnnnnn nnnnnnnnnn nnnnnnnnng caannnnnnn nnnnnnnnnn nnnnnnnnnn 360
nnnnnnnnnu ucgggaaggc nngaaagggg cggaugaann nnnnnnnnnn nnnnnnnnnn 420
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnngcunnu agucagaaga 480
ccggccuggc aggauagacc gaacc                                       505

<210> 224
<211> 505
<212> RNA
<213> Agrobacterium tumefaciens

<220>
<221> misc_feature
<222> (23)...(469)
<223> n = g, a, c or t/u

<400> 224
cuaaggguaa gggacugacg gunncuuuuc ccgnnnnnnn nnnnnngcaa nnnnnnnnnn 60
nnnncgggaa aagcunnaag angggaacna cgguuccgcc cnnnnnncga gaaannnnnn 120
gggucauucc guggcugccc ccgcaacugu aangcggunn nnnnnnnnnn nnnnnnnnnn 180
nnnnnnnnnn nnnnnnnnnn nnnnnnnaag cccgcaccgu aaannnnnnn nnnnnnnnnn 240
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnng ccacugaacc 300
nnnnnnnnnn nnnnnnnnnn nnnnuuuaug aucnnnnnnn nnnnnnnnnn nnnnnnnnnn 360
nnnnnnnggu ucgggaaggc nngguacag gguguugaua nnnnnnnnnn nnnnnnnnnn 420
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nngccgcnna agccaggaga 480
ccugccguuu caggaaaaag cgucu                                       505

<210> 225
<211> 505
<212> RNA
<213> Bacillus halodurans

<220>
<221> misc_feature
<222> (23)...(469)
<223> n = g, a, c or t/u
```

<400> 225
```
auuucaucgu uugggaacag gunnacguua agucnnnnnn nnnnacauga uannnnnnnn 60
nnngacuuaa uguuunnaaa angggaaunc cggugcnnnn nnnnnnnnnn nnnnnnnnnn 120
nnnnaaaucc ggagcggucc cngccacugu canuagcnnn nnnnnnnnnn nnnnnnnnnn 180
nnnnnnnnnn nnnnnnnnnn nnnnnnugag uuguaacgau auunnnnnnn nnnnnnnnnn 240
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnng ucacugaccg 300
nnnnnnnnnn nnnnnnnnnn nnnnnnuuca unnnnnnnnn nnnnnnnnnn nnnnnnnnnn 360
nnnnnnnugg uugggaagac nnuguugcaa uguugacnnn nnnnnnnnnn nnnnnnnnnn 420
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnngcuanng agccaggaga 480
ccugccuguu cuaacagcac ugcuu                                     505
```

<210> 226
<211> 505
<212> RNA
<213> Bacillus halodurans

<220>
<221> misc_feature
<222> (23)...(469)
<223> n = g, a, c or t/u

<400> 226
```
uaguguuugu ggacgguaag gunngccnnn nnnnnnnnnn nnnnncgaag cnnnnnnnnn 60
nnnnnnnnnn ggcuunnaaa angggaaunc uggugcnnnn nnnnnnnnnn nnnnnnnnnn 120
nnnnaaaucc ggagcugucc ccgcaacugu gangugcunn nnnnnnnnnn nnnnnnnnnn 180
nnnnnnnnnn nnnnnnnnnn nnnnnnnac gaacggaacg auuunnnnnn nnnnnnnnnn 240
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnng ccacuguaca 300
uccucnnnnn nnnnnnnnnn nnnnuacuuc uunnnnnnnn nnnnnnnnnn nnnnnnnnnn 360
ngagaaaugu augggaaggc nnuucuaagu agguaannnn nnnnnnnnnn nnnnnnnnnn 420
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnagcacnng agucaggaga 480
ccugccuuac uuccacaagu uucgc                                     505
```

<210> 227
<211> 505
<212> RNA
<213> Bacillus halodurans

<220>
<221> misc_feature
<222> (23)...(469)
<223> n = g, a, c or t/u

<400> 227
```
uaagcacgcu caagcauuag gunngguuca annnnnnnnn nnnnacaauc ggnnnnnnnn 60
nnnnnnuuga aucugnnaaa angggaagnc uggugannnn nnnnnnnnnn nnnnnnnnnn 120
nnnnaagucc agcacggunc gcgccacugu aauaaggnnn nnnnnnnnnn nnnnnnnnnn 180
nnnnnnnnnn nnnnnnnnnn nnnnnnnagc uacaugugag gaannnnnnn nnnnnnnnnn 240
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnna ccacuguccn 300
nnnnnnnnnn nnnnnnnnnn nnnnnnnnaa annnnnnnnn nnnnnnnnnn nnnnnnnnnn 360
nnnnnnnngg augggaaggu nacacaugga guguugannn nnnnnnnnnn nnnnnnnnnn 420
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnucuunna agucaggaga 480
ccugccuaau guaugcacuu gcacc                                     505
```

<210> 228
<211> 505
<212> RNA
<213> Bacillus halodurans

<220>
<221> misc_feature
<222> (23)...(469)
<223> n = g, a, c or t/u

<400> 228
aucguauauc gcgcugaagg gunncguuca annnnnnnnn nnnnnnnugu nnnnnnnnnn 60
nnnnnnuuga gcgugnnaaa angggaagnu cggugannnn nnnnnnnnnn nnnnnnnnnn 120
nnnnaaaucc gacacggunc ccgccacugu aanaugnnnn nnnnnnnnnn nnnnnnnnnn 180
nnnnnnnnnn nnnnnnnnnn nnnnnnggag aggcuugcaa gannnnnnnn nnnnnnnnnn 240
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnu ccacugucnn 300
nnnnnnnnnn nnnnnnnnnn nnnnnnnnua gcnnnnnnnn nnnnnnnnnn nnnnnnnnnn 360
nnnnnnnnng acgggaaggg nggcaaguac ucgaugaann nnnnnnnnnn nnnnnnnnnn 420
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnncaunna agucaggaga 480
ccugccuuuc aguuugagug uguag   505

<210> 229
<211> 505
<212> RNA
<213> Bacillus subtilis

<220>
<221> misc_feature
<222> (23)...(469)
<223> n = g, a, c or t/u

<400> 229
cggauacgaa ugucaaauag gunngccggu ccgunnnnnn nnnnnngaac annnnnnnnn 60
nnnnacagcc ggcuunnaaa angggaaanc cgguannnnn nnnnnnnnnn nnnnnnnnnn 120
nnnnaaagcc ggugcggunc ccgccacugu aanuuggcnn nnnnnnnnnn nnnnnnnnnn 180
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 300
nnnnnnnnnn nnnnnnnnnn nnnnnnncaa gcnnnnnnnn nnnnnnnnnn nnnnnnnnnn 360
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 420
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nngccaanng agccaggaua 480
ccugccuguu ugaucagcac gaauu   505

<210> 230
<211> 505
<212> RNA
<213> Bradyrhizobium japonicum

<220>
<221> misc_feature
<222> (24)...(469)
<223> n = g, a, c or t/u

<400> 230
cgauaaucca agucgucgag guuncuccgg uucnnnnnnn nnnnnnccau unnnnnnnnn 60
nnnngauccg gagcunnaag angggaagnc cggugcnnnn nnnnnnnnnn nnnnnnnnnn 120
nnnaaaugcc ggcucugccc ccgcaacugu gangcggnnn nnnnnnnnnn nnnnnnnnnn 180
nnnnnnnnnn nnnnnnnnnn nnnncgagcc gcuguccgac gaunnnnnnn nnnnnnnnnn 240
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnng ucgcugaagc 300
cnnnnnnnnn nnnnnnnnnn nnnnnnnnug cacnnnnnnn nnnnnnnnnn nnnnnnnnnn 360
nnnnnnggcu ucgggaaggc nncggacagc agcgaugann nnnnnnnnnn nnnnnnnnnn 420
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnccagcnna agccaggaga 480
ccggccccga caauauauug gucca   505

<210> 231
<211> 505
<212> RNA
<213> Bradyrhizobium japonicum

<220>
<221> misc_feature
<222> (24)...(468)
<223> n = g, a, c or t/u

<400> 231
caaauggugg cccggcguug guunccuguc nnnnnnnnnn nnnnnncuau nnnnnnnnnn 60
nnnnnnngac aggcgnnaag angggaaung cgauangggu ccgaaucggc aangauuugg 120
guccaaaaun gcagccgccc ccgcgaccgu gaccggagnn nnnnnnnnnn nnnnnnnnnn 180
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn agaugcccga gnnnnnnnnn nnnnnnnnnn 240
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnng ccacugaucc 300
cnnnnnnnnn nnnnnnnnnn nnnnnnnnug acnnnnnnnn nnnnnnnnnn nnnnnnnnnn 360
nnnnnnggga ucgggaaggc nnggggaucg aagggcaaaa cccugnnnnn nnnnnnnnnn 420
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nncuccgnca agccgggaga 480
ccugccagcg cggacgauuu uggac 505

<210> 232
<211> 505
<212> RNA
<213> Bradyrhizobium japonicum

<220>
<221> misc_feature
<222> (23)...(469)
<223> n = g, a, c or t/u

<400> 232
gggcacacag gacgggcaug gunngcucga gguggcgcnn nnnnnnnaaa nnnnnnnnnn 60
nnngcgccgg agcaunnaau cngggaaung gggaungggc ggacccnagu ugcnnnnggc 120
gcccaaaacc ccagccgccc ccgcgacugu aangcggunn nnnnnnnnnn nnnnnnnnnn 180
nnnnnnnnnn nnnnnnnnnn nnnnnnngag gggcuccgaa ccnnnnnnnn nnnnnnnnnn 240
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnng ccacugggcc 300
nnnnnnnnnn nnnnnnnnnn nnnnnnnng caannnnnnn nnnnnnnnnn nnnnnnnnnn 360
nnnnnnnggu ccgggaaggc nncggagaac cccagugann nnnnnnnnnn nnnnnnnnnn 420
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnaccgcnng agccaggaga 480
ccggccgugc auguuuugag gccaa 505

<210> 233
<211> 505
<212> RNA
<213> Bradyrhizobium japonicum

<220>
<221> misc_feature
<222> (24)...(469)
<223> n = g, a, c or t/u

```
<400> 233
aauccuagau gcucgcgacg guunuccccc nnnnnnnnnn nnnnnngaga nnnnnnnnnn 60
nnnnnnnngg ggaugnnaaa angggaaung cggugcgggg annnnnnnug uunnnnnnnu 120
ccccaaugcc gcggcugccc ccgcaacugu aangcggnnn nnnnnnnnnn nnnnnnnnnn 180
nnnnnnnnnn nnnnnnnnnn nnnnnauaau ccuucgucag aannnnnnnn nnnnnnnnnn 240
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnng ccacugggnn 300
nnnnnnnnnn nnnnnnnnnn nnnnnnuccu cggunnnnnn nnnnnnnnnn nnnnnnnnnn 360
nnnnnnnnnc ccgggaaggc nngacgaagu ggugacgacn nnnnnnnnnn nnnnnnnnnn 420
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnccgcnng agccaggaga 480
ccugccguca gccgggguca cacgc                                    505

<210> 234
<211> 505
<212> RNA
<213> Bradyrhizobium japonicum

<220>
<221> misc_feature
<222> (23)...(469)
<223> n = g, a, c or t/u

<400> 234
ucguagauug aucggugacg gunnucuccn nnnnnnnnnn nnnnnngcac nnnnnnnnnn 60
nnnnnnnngg agaucnnaaa angggaacng uggugcgaga uugucccaau gccgggauug 120
ucccaacgcc acggcugccc ccgcaacugu aangcggnnn nnnnnnnnnn nnnnnnnnnn 180
nnnnnnnnnn nnnnnnnnnn nnnnnugaau cuuucgucau aunnnnnnnn nnnnnnnnnn 240
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnng ccacugggan 300
nnnnnnnnnn nnnnnnnnnn nnnnnaucu cggnnnnnnn nnnnnnnnnn nnnnnnnnnn 360
nnnnnnnnuc cugggaaggc nngacguaag guaacgacnn nnnnnnnnnn nnnnnnnnnn 420
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnccgcnng agccaggaga 480
ccugccguca gccgggguca cacgc                                    505

<210> 235
<211> 505
<212> RNA
<213> Brucella melitensis

<220>
<221> misc_feature
<222> (23)...(469)
<223> n = g, a, c or t/u

<400> 235
aucgcaauuu ucaggagacg gunnuccgcc nnnnnnnnnn nnnnnnauug cnnnnnnnnn 60
nnnnnnnggc ggaugnnaaa angggaacna cggugaagcc nnnnnnnnau agnnnnnnnn 120
ggcugaaacc gagacugccc ccgcaacugu aanccggnnn nnnnnnnnnn nnnnnnnnnn 180
nnnnnnnnnn nnnnnnnnnn nnnnnagagc uauccuccac aggccgcgca agcggccaaa 240
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnng ccacugaaag 300
cagcnnnnnn nnnnnnnnnn nnnnnnnaau aunnnnnnnn nnnnnnnnnn nnnnnnnnnn 360
nnngcugcaa ucgggaaggc nnggaggcaa agcgaagacn nnnnnnnnnn nnnnnnnnnn 420
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnccggnna agucaggaga 480
ccugccguau ccggucaccc augcu                                    505

<210> 236
<211> 505
<212> RNA
<213> Brucella melitensis
```

```
<220>
<221> misc_feature
<222> (23)...(469)
<223> n = g, a, c or t/u

<400> 236
agugucaaac caugugacag gunnuuugcc ggnnnnnnnn nnnnaacgaa uccnnnnnnn 60
nnnnccggca auaccnnaaa angggaaung cgacgngacg gacccnnacg ccnnnnnggg 120
cgucuuuauc gcagccgacc ccgcgacugu agagcggnnn nnnnnnnnnn nnnnnnnnnn 180
nnnnnnnnnn nnnnnnnnnn nnnnnagagg gaagaggcaa gccgggcaac cggcannnnn 240
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnng ccacuggaaa 300
ucnnnnnnnn nnnnnnnnnn nnnnnnnaga ugnnnnnnnn nnnnnnnnnn nnnnnnnnnn 360
nnnnngauuu cugggaaggc nngcuuuauu ccccaagacn nnnnnnnnnn nnnnnnnnnn 420
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnccgcnng agccaggaga 480
ccugccuguu gcaugagggc auugc                                      505


<210> 237
<211> 505
<212> RNA
<213> Brucella melitensis

<220>
<221> misc_feature
<222> (23)...(469)
<223> n = g, a, c or t/u

<400> 237
gccguaauac cgucaugacg gunnucccg accgnnnnnn nnnnnnagag nnnnnnnnnn 60
nnnncgaagg ggauunnaau angggaacna cggugaggac gacccnnauc aannnnnngg 120
ggccgagacc guggcugccc ccgcaacugu aangcggann nnnnnnnnnn nnnnnnnnnn 180
nnnnnnnnnn nnnnnnnnnn nnnnnuugc cguucauccu cgugacgccg aaagcgucau 240
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnng ccacugugcc 300
nnnnnnnnnn nnnnnnnnnn nnnnnnnnca cnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 360
nnnnnnnggc acgggaaggc nagauggacg gcgauuannn nnnnnnnnnn nnnnnnnnnn 420
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnuccgcnna agccaggaga 480
ccugccgucu uacguagucc auugu                                      505

<210> 238
<211> 505
<212> RNA
<213> Brucella melitensis

<220>
<221> misc_feature
<222> (24)...(469)
<223> n = g, a, c or t/u

<400> 238
uaccauaucu uguguucgag guuncuuucg auucnnnnnn nnnnnngacn nnnnnnnnnn 60
nnngagucgg gagcunnaag acgggaaunc cggugcgcuu gcccnnnaug gunnnngggc 120
gggcaaugcc ggagcugccc ccgcaacugu aangcggcnn nnnnnnnnnn nnnnnnnnnn 180
nnnnnnnnnn nnnnnnnnnn nnnnngagcu uugcgcccca unnnnnnnnn nnnnnnnnnn 240
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnng ccacuggcnn 300
nnnnnnnnnn nnnnnnnnnn nnnnnnngaa annnnnnnnn nnnnnnnnnn nnnnnnnnnn 360
nnnnnnnnng ccgggaaggc nnggguggaa gcguugannn nnnnnnnnnn nngccgunng 420
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nngccgunng agccaggaga 480
ccugccuuga gcgugaacgu ccacg                                      505
```

82

```
<210> 239
<211> 505
<212> RNA
<213> Caulobacter crescentus

<220>
<221> misc_feature
<222> (23)...(469)
<223> n = g, a, c or t/u

<400> 239
ggucuguugc cguugucgug gunncugcgg acgnnnnnnn nnnnnnuucg nnnnnnnnnn 60
nnnncguccg gagcunnaag angggaagnu cggugnaggg nnnnnncgug aaannnnnnn 120
cccugaaucc ggcgcugccc ccgcaacugu gangcggnnn nnnnnnnnnn nnnnnnnnnn 180
nnnnnnnnnn nnnnnnnnnn nnnnncgagc cgcuguccgu uucgunnnnn nnnnnnnnnn 240
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnng ucacugacgc 300
gccgaannnn nnnnnnnnnn nnnnnnngcu ggnnnnnnnn nnnnnnnnnn nnnnnnnnuu 360
cggggaugcg ucgggaaggc cagggcaggg gugacgacnn nnnnnnnnnn nnnnnnnnnn 420
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnccgunng agccaggaga 480
ccugccucga cagauaacgu ccucc                                     505

<210> 240
<211> 505
<212> RNA
<213> Caulobacter crescentus

<220>
<221> misc_feature
<222> (23)...(469)
<223> n = g, a, c or t/u

<400> 240
uagcucuagc uucgcgucag gunnuccucn nnnnnnnnnn nnnnnngaaa nnnnnnnnnn 60
nnnnnnnnga ggaugnnaaa angggaacng agguugnnnn nnnnnnnnnn nnnnnnnnnn 120
nnnnaagacc ucggcugccc ccgcaacugu aangcggnnn nnnnnnnnnn nnnnnnnnnn 180
nnnnnnnnnn nnnnnnnnnn nnnnncgagc uucgcgucac aunnnnnnnn nnnnnnnnnn 240
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnng ccacugggcc 300
nnnnnnnnnn nnnnnnnnnn nnnnnnncaa aannnnnnnn nnnnnnnnnn nnnnnnnnnn 360
nnnnnnnggc cugggaaggc nngacgccca gaagcauuga cnnnnnnnnn nnnnnnnnnn 420
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnccgunng agccaggaga 480
ccugcccggc gcagucguuc aucgc                                     505

<210> 241
<211> 505
<212> RNA
<213> Chlorobium tepidum

<220>
<221> misc_feature
<222> (23)...(469)
<223> n = g, a, c or t/u
```

```
<400> 241
auacuucauc cgauuaugug gunngcccgc caugnnnnnn nnnnnngaaa nnnnnnnnnn 60
nnnncauacg ggcuunnaaa angggaaunc cggugannnn nnnnnnnnnn nnnnnnnnnn 120
nnnngagucc ggaacaguac ccgcugcugu aanuuccnnn nnnnnnnnnn nnnnnnnnnn 180
nnnnnggcug gccgcaaggc uggcgacaag guuugccgca caaunnnnnn nnnnnnnnnn 240
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnng ccacuguccc 300
nnnnnnnnnn nnnnnnnnnn nnnnnnnguu cannnnnnnn nnnnnnnnnn nnnnnnnnnn 360
nnnnnnnggg augggaaggc nncggcagaa uccnnnnnnn nnnnnnnnnn nnnnnnnnnn 420
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnngggannna agucagaaga 480
ccugccucau auuuuuggc uucgg                                       505
```

```
<210> 242
<211> 505
<212> RNA
<213> Chlorobium tepidum
```

```
<220>
<221> misc_feature
<222> (24)...(462)
<223> n = g, a, c or t/u
```

```
<400> 242
guucuuucuc gccaugacag gugnccgguu nnnnnnnnnn nnnnnnuaaa nnnnnnnnnn 60
nnnnnnnagc cggagnnaau angggaagnu acgugannnn nnnnnnnnnn nnnnnnnnnn 120
nnnngauucg uacacuguac ccgcaacugu acaacggunn nnnnnnuaac cgccgggcaa 180
auuccguggc cacacggaug cgcaaggcgg gcuuucagnn nnnnnnnnnn nnnnnnnnnn 240
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnng ucacugccgg 300
uuuuccnnnn nnnnnnnnnn nnnnnnnucc acnnnnnnnn nnnnnnnnnn nnnnnnnnnn 360
nnggaaaacu gcgggaaggu nnuuggaggc gcucgaunnn nnnnnnnnnn nnnnnnnnnn 420
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nngccgugaa agucaggaga 480
ccugccaguc augcauuugc accaa                                      505
```

```
<210> 243
<211> 505
<212> RNA
<213> Chlorobium tepidum
```

```
<220>
<221> misc_feature
<222> (23)...(469)
<223> n = g, a, c or t/u
```

```
<400> 243
caauaaauaa uucaguuacg gunnuuccgg ugcccnnnnn nnnnnnggug nnnnnnnnnn 60
nngggcgccg gaaugnnaaa angggaacnc cggugannnn nnnnnnnnnn nnnnnnnnnn 120
nnnnaaaucc gggacagugc ccgcugcugu ganuccucnn nnnnnnnnnn nnnnnnnnnn 180
nccgucggcc acaaucgggu cggcggacga ucgcuuccga ugannnnnnn nnnnnnnnnn 240
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnngg ccacugguuc 300
gcnnnnnnnn nnnnnnnnnn nnnnnngccc nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 360
nnnnngcgaa ccgggaaggc cnggaagcga nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 420
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nngggganng agucagaaga 480
ccugccguaa ugcaguaaau gcucc                                      505
```

```
<210> 244
<211> 505
<212> RNA
<213> Chlorobium tepidum
```

<220>
<221> misc_feature
<222> (24)...(468)
<223> n = g, a, c or t/u

<400> 244
ugaguucuuu cagcauuacg gugnccggau nnnnnnnnnn nnnnnngaaa gnnnnnnnnn 60
nnnnnnaugc cggaunnaau angggaagnu gcgugunnnn nnnnnnnnnn nnnnnnnnnn 120
nnnngaaucg cacacugugc ccgcaacugu aangauggun nnnnaugucg cgcgacgaca 180
ggagcagcuc ugcuuuugug gccguugcgg aucgggugua unnnnnnnnn nnnnnnnnnn 240
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn ccacuccgcc 300
aaccucugnn nnnnnnnnnn nnnnnnauaa cnnnnnnnnn nnnnnnnnnn nnnnnnnnca 360
cggggaaugc gggggaaggn ncugcccgga ggaaaacguc gaaguaauuu cgcannnnnn 420
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn ngccaucnga agucaggaga 480
ccugccguag ugguuggcgc cgaau   505

<210> 245
<211> 505
<212> RNA
<213> Chlorobium tepidum

<220>
<221> misc_feature
<222> (24)...(468)
<223> n = g, a, c or t/u

<400> 245
guucuuucuc gccaugacag gugnccgguu nnnnnnnnnn nnnnnnuaaa nnnnnnnnnn 60
nnnnnnnagc cggagnnaau angggaagnu acgugannnn nnnnnnnnnn nnnnnnnnnn 120
nnnngauucg uacacuguac ccgcaacugu acaacggnnn nnnnnnaaaa cugccgcugg 180
cagguauggc cacaugccuc aaagccgcag ccggugcacn nnnnnnnnnn nnnnnnnnnn 240
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnng ucacugccag 300
gcuccnnnnn nnnnnnnnnn nnnnnnnucc acnnnnnnnn nnnnnnnnnn nnnnnnnnnn 360
nnnggagcgg gcgggaaggc nnugcaucgn nnnnauucaa gnnnnnnnnn nnnnnnnnnn 420
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnccgunaa agucaggaga 480
ccugccaguu acucuuugcu cggaa   505

<210> 246
<211> 505
<212> RNA
<213> Clostridium acetobutylicum

<220>
<221> misc_feature
<222> (23)...(469)
<223> n = g, a, c or t/u

<400> 246
auugcuacua aaauuuguag gunnucaacu gagnnnnnnn nnnnnngagu nnnnnnnnnn 60
nnnncuuagu ugauunnaaa anaggaaunc aggugannnn nnnnnnnnnn nnnnnnnnnn 120
nnnnaaagcc ugagcggunc ccgccacugu aauaaaggnn nnnnnnnnnn nnnnnnnnnn 180
nnnnnnnnnn nnnnnnnnnn nnnnnnnagu uuaaguacaa uaunnnnnnn nnnnnnnnnn 240
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnng ucacuggnnn 300
nnnnnnnnnn nnnnnnnnnn nnnnnnngaa annnnnnnnn nnnnnnnnnn nnnnnnnnnn 360
nnnnnnnnnn cugggaaggc nnguacuuaa gcaaugannn nnnnnnnnnn nnnnnnnnnn 420
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnuuuuunng agccaggaua 480
cuugccauau ucuaguaugu uuuuu   505

ATTORNEY DOCKET NO. 25006.0016U2

```
<210> 247
<211> 505
<212> RNA
<213> Clostridium acetobutylicum

<220>
<221> misc_binding
<222> (23)...(469)
<223> n = g, a, c or t/u

<400> 247
gaaauaaauac cauauuuuag gcnnaccuan nnnnnnnnnn nnnnnnaucu nnnnnnnnnn 60
nnnnnnnnua gguuunnaau angggaaanu uggugannnn nnnnnnnnnn nnnnnnnnnn 120
nnnnaaaucc aaugcaaccc ccguuacugu aunacaguun nnnnnnnnnn nnnnnnnnnn 180
nnnnnnnnnn nnnnnnnnnn nnnnnnnnna caaaaccaau gnnnnnnnnn nnnnnnnnnn 240
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnu ccacuggagn 300
nnnnnnnnnn nnnnnnnnnn nnnnnnuuu unnnnnnnnn nnnnnnnnnn nnnnnnnnnn 360
nnnnnnncu cugggaagga nnugguugag gcuannnnnn nnnnnnnnnn nnnnnnnnnn 420
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn naacugunng agccaggaga 480
ccuaccuaaa auauuaugga acuuc                                       505

<210> 248
<211> 505
<212> RNA
<213> Clostridium perfringens

<220>
<221> misc_feature
<222> (23)...(469)
<223> n = g, a, c or t/u

<400> 248
aauuaaauau uuagaaauag gunnuaaaua guuacnnnnn nnnnnnauuu nnnnnnnnnn 60
nnguaacuau auauunnaaa angggaaguu ggguuunnnn nnnnnnnnnn nnnnnnnnnn 120
nnnnaaaucc cacgcggunc ccgccgcugu aanuagnnnn nnnnnnnnnn nnnnnnnnnn 180
nnnnnnnnnn nnnnnnnnnn nnnnnaggag cuuuuuguac uuuaannnnn nnnnnnnnnn 240
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnng ccacuggaau 300
annnnnnnnn nnnnnnnnnn nnnnnnnua annnnnnnnn nnnnnnnnnn nnnnnnnnnn 360
nnnnnnuauu uugggaaggc ncacaaaaag ugaugauann nnnnnnnnnn nnnnnnnnnn 420
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnncuunng agccagaaga 480
ccugccuauu uuuaaaacau caaga                                       505

<210> 249
<211> 505
<212> RNA
<213> Clostridium perfringens

<220>
<221> misc_feature
<222> (23)...(468)
<223> n = g, a, c or t/u
```

```
<400> 249
aguugauuaa cuaauaauug gunngugnnn nnnnnnnnnn nnnnnnauuu unnnnnnnnn 60
nnnnnnnnnn cgcuunnaau angggaaung aaguuannnn nnnnnnnnnn nnnnnnnnnn 120
nnnnaagucu ucaacuaccu caguaaccgu gaagcnnnnn nnnnnnnnnn nnnnnnnnnn 180
nnnnnnnnnn nnnnnnnnnn nnnnnnagac aaaaucucaa uaunnnnnnn nnnnnnnnnn 240
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnng ucacugcaun 300
nnnnnnnnnn nnnnnnnnnn nnnnnnnuuu uunnnnnnnn nnnnnnnnnn nnnnnnnnnn 360
nnnnnnnngu gugggaagac nngagaugga ggaagaannn nnnnnnnnnn nnnnnnnnnn 420
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnngcnaa agucgggaua 480
ccugccuuuu auuuaaguac uauua                                      505


<210> 250
<211> 505
<212> RNA
<213> Clostridium perfringens


<220>
<221> misc_feature
<222> (23)...(468)
<223> n = g, a, c or t/u


<400> 250
auaauauuuu auauuuuuag gunnuugnnn nnnnnnnnnn nnnnnnauuu nnnnnnnnnn 60
nnnnnnnnnn uaauunnaaa angggaaang ugguuannnn nnnnnnnnnn nnnnnnnnnn 120
nnnnaagucc acuacagccc ccgcuacugu gauaggnnnn nnnnnnnnnn nnnnnnnnnn 180
nnnnnnnnnn nnnnnnnnnn nnnnnnauac aaguuucuau uugannnnnn nnnnnnnnnn 240
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn ccacugauun 300
nnnnnnnnnn nnnnnnnnnn nnnnnnnaua uannnnnnnn nnnnnnnnnn nnnnnnnnnn 360
nnnnnnnnaa uugggaaggn ngagaaauga ggauaagnnn nnnnnnnnnn nnnnnnnnnn 420
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnccunua agucaggaua 480
ccugccuaaa gaucaugaac uaagc                                      505


<210> 251.
<211> 505
<212> RNA
<213> Clostridium perfringens


<220>
<221> misc_feature
<222> (23)...(469)
<223> n = g, a, c or t/u


<400> 251
aaauaaaaua agagcauuag gunnguunnn nnnnnnnnnn nnnnnnuagu nnnnnnnnnn 60
nnnnnnnnnn aacuunnaau angggaaang uunnnnnnnn nnnnnnnnnn nnnnnnnnnn 120
nnnnaaanna acugcagccc ccgcuacugu ugnauaagnn nnnnnnnnnn nnnnnnnnnn 180
nnnnnnnnnn nnnnnnnnnn nnnnnngac gagaauaaaa agnnnnnnnn nnnnnnnnnn 240
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn ccacugugau 300
nnnnnnnnnn nnnnnnnnnn nnnnnnnaaa uannnnnnnn nnnnnnnnnn nnnnnnnnnn 360
nnnnnnnguc auggaaaggn nauuguuuua ggaugannnn nnnnnnnnnn nnnnnnnnnn 420
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnuuuaunnu agccaggaga 480
ccugccuagu augcuauucu uauug                                      505


<210> 252
<211> 505
<212> RNA
<213> Escherichia coli
```

<220>
<221> misc_feature
<222> (24)...(469)
<223> n = g, a, c or t/u

<400> 252
ccuguagcau ccacuugccg gucncunnnn nnnnnnnnnn nnnnnnngug nnnnnnnnnn 60
nnnnnnnnnn naguunnaau angggaaunc cagugcnnnn nnnnnnnnnn nnnnnnnnnn 120
nnnngaaucu ggagcuganc gcgcagcggu aanggannnn nnnnnnnnnn nnnnnnnnnn 180
nnnnnnnnnn nnnnnnnnnn nnnnnaaggu gcgaugauug cguuaugcgn nnnnnnnnnn 240
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnng acacugccnn 300
nnnnnnnnnn nnnnnnnnnn nnnnnnnauu cnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 360
nnnnnnnnng gugggaaguc nnaucaucuc uuaguaucuu agauaccccn nnnnnnnnnn 420
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnuccnna agcccgaaga 480
ccugccggcc aacgucgcau cuggu 505

<210> 253
<211> 505
<212> RNA
<213> Fusobacterium nucleatum

<220>
<221> misc_feature
<222> (24)...(468)
<223> n = g, a, c or t/u

<400> 253
uuuaauauca ugucaauuau guunccuuan nnnnnnnnnn nnnnnnuuuu unnnnnnnnn 60
nnnnnnnnua aggcunnaag angggaaunu uggugannnn nnnnnnnnnn nnnnnnnnnn 120
nnnngauacc aaaacgagnc ccgucgcugu aauugannnn nnnnnnnnnn nnnnnnnnnn 180
nnnnnnnnnn nnnnnnnnnn nnnnnnnngu uuuuucuugu uuuannnnnn nnnnnnnnnn 240
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnua ccacuggaun 300
nnnnnnnnnn nnnnnnnnnn nnnnnnnuuu unnnnnnnnn nnnnnnnnnn nnnnnnnnnn 360
nnnnnnnnau uugggaaggu anaagaaaua uaaannnnnn nnnnnnnnnn nnnnnnnnnn 420
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnucanua agucagaaga 480
ccugcauaau ugaauuacuc uaucu 505

<210> 254
<211> 505
<212> RNA
<213> Leptospira interrogans

<220>
<221> misc_feature
<222> (24)...(469)
<223> n = g, a, c or t/u

<400> 254
aucuuggaac ggaaaacuug uuunauunnn nnnnnnnnnn nnnnncucgu nnnnnnnnnn 60
nnnnnnnnnn gauganngga angggaaunc cgguucnnnn nnnnnnnnnn nnnnnnnnnn 120
nnnnaaaucc ggagcugaac ccgcagcugu aanucgccga nnnnnnnnnn nnnnnnnnnn 180
nnnnnnnnnn nnnnnnnnnn nnnnnaugag auuucgcaau caunnnnnnn nnnnnnnnnn 240
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnng ccacugcgun 300
nnnnnnnnnn nnnnnnnnnn nnnnnnuaaa unnnnnnnnn nnnnnnnnnn nnnnnnnnnn 360
nnnnnnnnac gcgggaaggc nnugcgaaan nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 420
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn ucggcganna agccagaaga 480
ccuaacaagu aaaaaaacaa acuaa 505

<210> 255
<211> 505
<212> RNA
<213> Listeria monocytogenes

<220>
<221> misc_feature
<222> (23)...(469)
<223> n = g, a, c or t/u

<400> 255
guuaaauagg ucuuauguug gunnggaaug unnnnnnnnn nnnnnnaugu nnnnnnnnnn 60
nnnnnnnaca uuucugnaaa gnaggaaunu cggugcnnnn nnnnnnnnnn nnnnnnnnnn 120
nnnngaugcc gaaacugccc ccgcaacugu aanggunnnn nnnnnnnnnn nnnnnnnnnn 180
nnnnnnnnnn nnnnnnnnnn nnnnggacaa gaaucgagau nnnnnnnnnn nnnnnnnnnn 240
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnaa ccacuguacg 300
unnnnnnnnn nnnnnnnnnn nnnnnnuuuu annnnnnnnn nnnnnnnnnn nnnnnnnnnn 360
nnnnnngcgu augggaaggu uncgauuguu ggaugaannn nnnnnnnnnn nnnnnnnnnn 420
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnngccnna agucaggaua 480
cucgccaaau aagacggaag caacu 505

<210> 256
<211> 505
<212> RNA
<213> Mesorhizobium loti

<220>
<221> misc_feature
<222> (23)...(469)
<223> n = g, a, c or t/u

<400> 256
cuauagucau gcagucgucg gunnuccnnn nnnnnnnnnn nnnnnnguuu unnnnnnnnn 60
nnnnnnnnnn ggagccnaag angggaaung cggugcgggc gannnnnaau ucnnnnnnuu 120
gcccaaugcc guggcugccc ccgcaacugu gungcggnnn nnnnnnnnnn nnnnnnnnnn 180
nnnnnnnnnn nnnnnnnnnn nnnnnnnuag uccucuccau aunnnnnnnn nnnnnnnnnn 240
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnng ccacugaaga 300
nnnnnnnnnn nnnnnnnnnn nnnnnnnuuc gnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 360
nnnnnnnucu ucgggaaggu nngggaagg gcgcugaunn nnnnnnnnnn nnnnnnnnnn 420
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnccgunng agccaggaga 480
ccugccgacg acggcaaaac ugaca 505

<210> 257
<211> 505
<212> RNA
<213> Mesorhizobium loti

<220>
<221> misc_feature
<222> (23)...(469)
<223> n = g, a, c or t/u

```
<400> 257
gccuaaaucc gcuccagacg gunncccuug ccnnnnnnnn nnnnncgcaa cnnnnnnnnn 60
nnnnnnggca ggggcunaag angggaaung cggugcggga unnnnnnnuu cgnnnnnnna 120
ucucaaaucc gcggcugucc ccgcaacugu aangcgnnnn nnnnnnnnnn nnnnnnnnnn 180
nnnnnnnnnn nnnnnnnnnn nnnaagagc caaggccgaa agnnnnnnnn nnnnnnnnnn 240
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn ccacugggnn 300
nnnnnnnnnn nnnnnnnnnn nnnnnnnacg uunnnnnnnn nnnnnnnnnn nnnnnnnnnn 360
nnnnnnnnnc ccgggaaggn nncggcaccc aaggcgauga ccnnnnnnnn nnnnnnnnnn 420
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnncgcnng agccaggaga 480
ccugccgucu gcgacaaaag aaucc                                     505

<210> 258
<211> 505
<212> RNA
<213> Mesorhizobium loti

<220>
<221> misc_feature
<222> (24)...(469)
<223> n = g, a, c or t/u

<400> 258
auuagaucau gucaucucag gugnccgcuu cgunnnnnnn nnnnnngacg nnnnnnnnnn 60
nnnnacgggg cggagnnaau ungggaagnc cggucannnn nnnnnnnnnn nnnnnnnnnn 120
nnnnaagucc ggcgcugccc ccgcaacggu ggnuggagnn nnnnnnnnnn nnnnnnnnnn 180
nnnnnnnnnn nnnnnnnnnn nnnnnuucaa gucgcaacgg gagnnnnnnn nnnnnnnnnn 240
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnna ccacugggcn 300
nnnnnnnnnn nnnnnnnnnn nnnnnnnaaa annnnnnnnn nnnnnnnnnn nnnnnnnnnn 360
nnnnnnnngc cugggaaggu nngucgcgac cguccgcaag gacannnnnn nnnnnnnnnn 420
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nncuccanng agcccggaaa 480
ccagcccgag auuuuugaac ucgac                                     505

<210> 259
<211> 505
<212> RNA
<213> Mesorhizobium loti

<220>
<221> misc_feature
<222> (24)...(469)
<223> n = g, a, c or t/u

<400> 259
gugauugugc gcaugucgug guuncuccgc gcggcnnnnn nnnnnnnacu nnnnnnnnnn 60
ngccguagcg gagcunnaag angggaagnc cggugcnnnn nnnnnnnnnn nnnnnnnnnn 120
nnnngaugcc ggcgcugccc ccgcaacugu uangcggnnn nnnnnnnnnn nnnnnnnnnn 180
nnnnnnnnnn nnnnnnnnnn nnnnnncgag ccaagcccau uggunnnnnn nnnnnnnnnn 240
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnng ucacugaggc 300
nnnnnnnnnn nnnnnnnnnn nnnnnngaa cgnnnnnnnn nnnnnnnnnn nnnnnnnnnn 360
nnnnnnngcc ucgggaagac nngggcagag gcuuugacnn nnnnnnnnnn nnnnnnnnnn 420
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnccgcnng agccaggaga 480
ccugccacga cgaacaacgu ccacg                                     505

<210> 260
<211> 505
<212> RNA
<213> Mesorhizobium loti
```

90

```
<220>
<221> misc_feature
<222> (24)...(469)
<223> n = g, a, c or t/u

<400> 260
aaggucgccg ccacugccug gugncccgcn nnnnnnnnnn nnnnncgca annnnnnnnn 60
nnnnnnnngc gggagnnaau cngggaacna cgguugnnnn nnnnnnnnnn nnnnnnnnnn 120
nnnnaacucc guggcgugnc ccaacgcugu aangggnnn nnnnnnnnnn nnnnnnnnnn 180
nnnnnnnnnn nnnnnnnnnn nnnnngacc gcgccgguaa aunnnnnnnn nnnnnnnnnn 240
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnng ccacugucnn 300
nnnnnnnnnn nnnnnnnnnn nnnnnnnga unnnnnnnnn nnnnnnnnnn nnnnnnnnnn 360
nnnnnnnng acgggaaggc nnaccggacg cggguugann nnnnnnnnnn nnnnnnnnnn 420
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnucccnng agccagaaga 480
ccggccuggc aggcaucguc auccg                                     505

<210> 261
<211> 505
<212> RNA
<213> Mesorhizobium loti

<220>
<221> misc_feature
<222> (23)...(469)
<223> n = g, a, c or t/u

<400> 261
ucuacggugg gugcgugaug gunnccccgc gccnnnnnnn nnnnnngaaa nnnnnnnnnn 60
nnnnggcaag gggugnnaaa angggaacna cggugagacc unnnnnnnca aannnnnnna 120
ggucgagacc guggcugccc ccgcaacugu aangcggnnn nnnnnnnnnn nnnnnnnnnn 180
nnnnnnnnnn nnnnnnnnnn nnnnnnagag caagauccga cannnnnnnn nnnnnnnnnn 240
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnug ccacuggccn 300
nnnnnnnnnn nnnnnnnnnn nnnnnnnngg caannnnnnn nnnnnnnnnn nnnnnnnnnn 360
nnnnnnnngg cugggaaggc anggauugcg cugagacnnn nnnnnnnnnn nnnnnnnnnn 420
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnccgcnng agccaggaga 480
ccugccauca cugaguugac cggac                                     505

<210> 262
<211> 505
<212> RNA
<213> Mycobacterium leprae

<220>
<221> misc_feature
<222> (23)...(469)
<223> n = g, a, c or t/u

<400> 262
ccacacggcg ccaguaucga gunngaugcu nnnnnnnnnn nnnnnnagcu cnnnnnnnnn 60
nnnnnnnagc aucgcnngag angggaacnc cggugannnn nnnnnnnnnn nnnnnnnnnn 120
nnnngaaucc gggacugunc ccgcagcggu aungcaggnn nnnnnnnnnn nnnnnnnnnn 180
nnnnnnnnnn nnnnnnnnnn nnnnnnaacg accgccgucu ggaannnnnn nnnnnnnnnn 240
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn gcacuggucu 300
uagannnnnn nnnnnnnnnn nnnnnnnnaa aannnnnnnn nnnnnnnnnn nnnnnnnnnn 360
nnnuccgaga cugggaagcn ngauggccau uagaagcacc uauccagugc gcgnnnnnnn 420
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnccugcnng aguccgaaga 480
ccugccggcu gugucgggcg cgccg                                     505
```

```
<210> 263
<211> 505
<212> RNA
<213> Mycobacterium tuberculosis

<220>
<221> misc_feature
<222> (23)...(469)
<223> n = g, a, c or t/u

<400> 263
cuucccguca ggcgaugacg aunnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn  60
nnnnnnnnnn nnnnnnnnnn gcaggaagnc cggugannnn nnnnnnnnnn nnnnnnnnnn  120
nnnngaaucc ggcgcggunc ccgccacugu canccgggnn nnnnnnnnnn nnnnnnnnnn  180
nnnnnnnnnn nnnnnnnnnn nnnnnnngag cgacccucgu aannnnnnnn nnnnnnnnnn  240
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnng ccacggccnn  300
nnnnnnnnnn nnnnnnnnnn nnnnnnnnac annnnnnnnn nnnnnnnnnn nnnnnnnnnn  360
nnnnnnnnng gcuggaaggc nngaggcaag caacgannnn nnnnnnnnnn nnnnnnnnnn  420
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnuccggnng agccaggaga  480
cucgcgucau cgcguccugc caccc                                       505

<210> 264
<211> 505
<212> RNA
<213> Mycobacterium tuberculosis

<220>
<221> misc_feature
<222> (1)...(469)
<223> n = g, a, c or t/u

<400> 264
nnnnnuugac cacgcagcug gucnugcugg cguccgaaag ggcgucggca ucgagcgggg  60
caacgaugcu ucgcnnngag angggaacnc ugguugannnn nnnnnnnnnn nnnnnnnnnn  120
nnnngaaucc gggacugunc ccgcagcggu aungcaggnn nnnnnnnnnn nnnnnnnnnn  180
nnnnnnnnnn nnnnnnnnnn nnnnnaacga ccgccgucuu ggaaguagac aannnnnnnn  240
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn gcacggucn  300
nnnnnnnnnn nnnnnnnnnn nnnnnnnuca acnnnnnnnn nnnnnnnnnn nnnnnnnnnn  360
nnnnnnnnga cuggaaagcn nngacggcca guaggagcac ccaccgggug cgagnnnnnn  420
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnccugcnng aguccgaaga  480
ccugccagcc gugccggacg cgccg                                       505

<210> 265
<211> 505
<212> RNA
<213> Pseudomonas aeruginosa

<220>
<221> misc_feature
<222> (24)...(469)
<223> n = g, a, c or t/u
```

<400> 265
agcugcgcgc cuugcgacag gugncccnn nnnnnnnnnn nnnnnngcaa nnnnnnnnnn 60
nnnnnnnnng gggugnnaaa cagggaagnc uggugcguuc cnnnnnnngu cnnnnnnnng 120
gaaccaggcc agcgcugccc ccgcaacggu agngcgannn nnnnnnnnnn nnnnnnnnnn 180
nnnnnnnnnn nnnnnnnnnn nnnnnaucag acagccgcuc gaugannnnn nnnnnnnnnn 240
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn ccacugugcn 300
nnnnnnnnnn nnnnnnnnnn nnnnnnnnuc cgnnnnnnnn nnnnnnnnnn nnnnnnnnnn 360
nnnnnnnngc augggaaggn ncgcggcugg aagcguccag cgcuucgcnn nnnnnnnnnn 420
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnucgcnng agcccggaga 480
ccggccugac gcacccacgg caucg   505

<210> 266
<211> 505
<212> RNA
<213> Pseudomonas aeruginosa

<220>
<221> misc_feature
<222> (23)...(469)
<223> n = g, a, c or t/u

<400> 266
gcauaauagc gcguucgucg gunngcccgg cccuuucgcg nnnnnnuuag nnnnncgcgg 60
ggccaacgag ggccgnnaag angggaacna cggagccgcg gucuunnuu cgnnaagccc 120
gggccuagcc guggcugccc ccgcaacugu aungcagccu gnnnnnnnnn nnnnnnnnnn 180
nnnnnnnnnn nnnnnnnnnn nnnnnnnua uucgcgccau ucnnnnnnnn nnnnnnnnnn 240
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnng ccacuggnnn 300
nnnnnnnnnn nnnnnnnnnn nnnnnnnauu annnnnnnnn nnnnnnnnnn nnnnnnnnnn 360
nnnnnnnnnn ccgggaaggc nnggcgcgaa gcggagguuc cuccccggg uggaacgcnn 420
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnc gggcugcnng agccaggaga 480
ccugccgccg aaaccagucg cgagu   505

<210> 267
<211> 505
<212> RNA
<213> Pseudomonas aeruginosa

<220>
<221> misc_feature
<222> (24)...(469)
<223> n = g, a, c or t/u

<400> 267
ucccauccgg cccguuccag gugnccuccu gcnnnnnnnn nnnnncgccg cnnnnnnnnn 60
nnnnngcagg aggugnnaaa cnggaagnc cggugcguca cnnnnnnnuu cgnnnnnnng 120
ugaucagucc ggcgcugccc ccgcaacggu aangcgagnn nnnnnnnnnn nnnnnnnnnn 180
nnnnnnnnnn nnnnnnnnnn nnnnnnnncg aaauccucuu cagnnnnnnn nnnnnnnnnn 240
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnng ccacugugcn 300
nnnnnnnnnn nnnnnnnnnn nnnnnnnnuc cgnnnnnnnn nnnnnnnnnn nnnnnnnnnn 360
nnnnnnnngc augggaaggc nngaggauuu cacgaccnnn nnnnnnnnnn nnnnnnnnnn 420
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nncucgcnna agcccggaga 480
ccggccugca acgcccuguu ggcac   505

<210> 268
<211> 505
<212> RNA
<213> Pseudomonas aeruginosa

93

```
<220>
<221> misc_feature
<222> (24)...(469)
<223> n = g, a, c or t/u

<400> 268
cguagccuug ccgguucgag guunccucgc cgnnnnnnnn nnnnnngcga nnnnnnnnnn 60
nnnnncggcg gggcunnaag angggaacng cggucgnnnn nnnnnnnnnn nnnnnnnnnn 120
nnnnnaugcc gcggcugccc ccgcaacugu ganacggnnn nnnnnnnnnn nnnnnnnnnn 180
nnnnnnnnnn nnnnnnnnnn nnnnncgau cguuccccaa unnnnnnnnn nnnnnnnnnn 240
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnng ccacugcgnn 300
nnnnnnnnnn nnnnnnnnnn nnnnnnnnug annnnnnnnn nnnnnnnnnn nnnnnnnnnn 360
nnnnnnnnnc gcgggaaggc nngggaacc ggcggagacg ccagannnnn nnnnnnnnnn 420
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnccgunng agccaggaga 480
ccugccucgu cgaucccgug gcgcg 505


<210> 269
<211> 505
<212> RNA
<213> Pseudomonas putida

<220>
<221> misc_feature
<222> (23)...(469)
<223> n = g, a, c or t/u

<400> 269
gucuaccaug cgggccgccg gunnuuccnn nnnnnnnnnn nnnnnnacca cnnnnnnnnn 60
nnnnnnnnng gaacunnaac angggaaunc ccannnggcc ugnnnnncca auannnnnca 120
ggccnnaauc ggaacugccc ccgcaacugu agngugcnnn nnnnnnnnnn nnnnnnnnnn 180
nnnnnnnnnn nnnnnnnnnn nnnnncgag ccugcuccau cgaunnnnnn nnnnnnnnnn 240
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnng ccacugggcn 300
nnnnnnnnnn nnnnnnnnnn nnnnncugc cnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 360
nnnnnnngc ccgggaaggc ncggagccgg gccgugacnn nnnnnnnnnn nnnnnnnnnn 420
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnngcacnnc agucaggaga 480
ccugccggcc uacauucacc aaccg 505


<210> 270
<211> 505
<212> RNA
<213> Pseudomonas putida

<220>
<221> misc_feature
<222> (24)...(469)
<223> n = g, a, c or t/u

<400> 270
cagaugcgcg ccaguuucag gugncccugc gcnnnnnnnn nnnnncgccg cnnnnnnnnn 60
nnnnngcgca gggugnnaaa cngggaaanc cggugcgucg ugnnnnnuug ccnnnnnnca 120
cgacaagucc ggugcugccc ccgcaacggu aangcgagnn nnnnnnnnnn nnnnnnnnnn 180
nnnnnnnnnn nnnnnnnnnn nnnnnnnncg aacccuucga gaunnnnnnn nnnnnnnnnn 240
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnna ccacugugcn 300
nnnnnnnnnn nnnnnnnnnn nnnnnnnuca annnnnnnnn nnnnnnnnnn nnnnnnnnnn 360
nnnnnnnngc augggaaggu nngaagguuu caugcccnnn nnnnnnnnnn nnnnnnnnnn 420
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nncucgcnna agcccggaga 480
ccggccugga gcuucacuug gcaac 505
```

<210> 271
<211> 505
<212> RNA
<213> Pseudomonas putida

<220>
<221> misc_feature
<222> (24)...(469)
<223> n = g, a, c or t/u

<400> 271
uccuuaugcc ucgcguucag gugncccnn nnnnnnnnnn nnnnnucag nnnnnnnnnn 60
nnnnnnnnng gggugnnaaa cngggaaanc cggugcgucc caggcccuuc agcnagggcc 120
ggacaaugcc ggugcugccc ccgcaacggu aangcgagnn nnnnnnnnnn nnnnnnnnnn 180
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnu gaagcgucug unnnnnnnnn nnnnnnnnnn 240
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnna ccacugugcc 300
nnnnnnnnnn nnnnnnnnnn nnnucguag uacnnnnnnn nnnnnnnnnn nnnnnnnnnn 360
nnnnnnnggc augggaaggu nngacgcguu ccaggagccc agcucuucnn nnnnnnnnnn 420
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nncucgcnna agcccggaga 480
ccggccuggc guucaugaac acccc 505

<210> 272
<211> 505
<212> RNA
<213> Pseudomonas putida

<220>
<221> misc_feature
<222> (24)...(469)
<223> n = g, a, c or t/u

<400> 272
cguagccuug ccacuucgag guuncuucgg cnnnnnnnnn nnnnnncugn nnnnnnnnnn 60
nnnnnngccg aagcunnaag acgggaacng cgguacnnnn nnnnnnnnnn nnnnnnnnnn 120
nnnnnaagcc gcggcugccc ccgcaacugu aangcaccgn nnnnnnnnnn nnnnnnnnnn 180
nnnnnnnnnn nnnnnnnnnn nnnnnacaac ggaucgacac annnnnnnnn nnnnnnnnnn 240
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnng ccacugcgcn 300
nnnnnnnnnn nnnnnnnnnn nnnnnncaa cnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 360
nnnnnnnngc gcgggaaggc nngucauccc gccagcccga acggggacau ggaannnnnn 420
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn ncggugcnna agccaggaga 480
ccugccucgu cacguuuucg acuuu 505

<210> 273
<211> 505
<212> RNA
<213> Ralstonia solanacearum

<220>
<221> misc_feature
<222> (32)...(469)
<223> n = g, a, c or t/u

<400> 273
guuacacucg ccgcguccug gugcccgcag annnnnnnnn nnnnnngccg annnnnnnnn 60
nnnnnnucug caguunnaaa cngggaagnc agggagcggc cgccnnncca aacnnnnngg 120
ugcgccaacc ugcgcugccc ccgcaacggu aagcgaacgc cgucgaaggc cgcgcuaccu 180
cuggccagaa gagggcgcgg cgucgcgcag guccguccac aunnnnnnnn nnnnnnnnnn 240
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnng ccacuguucn 300
nnnnnnnnnn nnnnnnnnnn nnnnnncgc gnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 360
nnnnnnnnga acgggaaggc nnggccggac ccgnnnnnnn nnnnnnnnnn nnnnnnnnnn 420
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nguucgcnnc agcccggaua 480
ccggccagga caguggguuu cagag 505

<210> 274
<211> 505
<212> RNA
<213> Sinorhizobium meliloti

<220>
<221> misc_feature
<222> (24)...(469)
<223> n = g, a, c or t/u

<400> 274
cuuagaugag gacacucaag gugnccgccu cnnnnnnnnn nnnnnngaag nnnnnnnnnn 60
nnnnggaggg cggagnnaau ungggaagnc cggucannnn nnnnnnnnnn nnnnnnnnnn 120
nnnnaauccc ggcgcugccc ccgcaacggu ggnuggagcn nnnnnnnnnn nnnnnnnnnn 180
nnnnnnnnnn nnnnnnnnnn nnnnngaaca gccacggcag aagnnnnnnn nnnnnnnnnn 240
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnng ccacuggacn 300
nnnnnnnnnn nnnnnnnnnn nnnnnnnacc gcnnnnnnnn nnnnnnnnnn nnnnnnnnnn 360
nnnnnnnngu ccgggaaggc nngccgggcn nnnnaggucc cuugcggacg nnnnnnnnnn 420
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn ngcuccanng agcccggaaa 480
ccagccuuga agcagaaaua gaccg 505

<210> 275
<211> 505
<212> RNA
<213> Sinorhizobium meliloti

<220>
<221> misc_feature
<222> (24)...(468)
<223> n = g, a, c or t/u

<400> 275
uggccauaug ccgccgucag gugncccgcn nnnnnnnnnn nnnnnngaaa unnnnnnnnn 60
nnnnnnnngc gggggnnaau cnggggaagnc cggugcnnnn nnnnnnnnnn nnnnnnnnnn 120
nnnnaguucc ggcacgugnc ccaacgcugu gaagggnnnn nnnnnnnnnn nnnnnnnnnn 180
nnnnnnnnnn nnnnnnnnnn nnnnnngacg uucucgccaa aaagggcucu gaaucuuuuc 240
agagcuuunn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnng ccacugaaua 300
nnnnnnnnnn nnnnnnnnnn nnnnnnuuga agcnnnnnnn nnnnnnnnnn nnnnnnnnnn 360
nnnnnnnuau ucgggaaggc nnggcgcgaa cggaugannn nnnnnnnnnn nnnnnnnnnn 420
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnuccnga agucagaaga 480
ccggccuggc gagauagacc ggccc 505

<210> 276
<211> 505
<212> RNA
<213> Sinorhizobium meliloti

```
<220>
<221> misc_feature
<222> (23)...(469)
<223> n = g, a, c or t/u

<400> 276
uaauuaacgc aguauggaug gunnucucuc gugccnnnnn nnnnnngagg unnnnnnnnn 60
nnggggcgag ggagunnaaa ungggaaung cgaaggggcg gacccnnacg ccnnnnnggg 120
cgcccuuauc gcagccgacc ccgcgacugu agaacggunn nnnnnnnnnn nnnnnnnnnn 180
nnnnnnnnnn nnnnnnnnnn nnnnnnncag gguucgccau cgggcauuuc gccggauuuc 240
aacgcgcugc augggcaguc ucgugaaguu uggcggcaug ucggaaaang ccacuggcgu 300
ggcauugcga ucagccgggc aggacgccuc uucuucuacg aaucguccgc cuuucgcgau 360
gccgcaaacg ccgggaaggc gaggcgagcc cguucggucu uuugccgcau cguuuuucgg 420
gccgagccgg uccggcgaac gugcggccau gaggaucgug acgccgunng agccaggaga 480
ccugccaucc gucagggcau uccgc 505


<210> 277
<211> 505
<212> RNA
<213> Sinorhizobium meliloti


<220>
<221> misc_feature
<222> (23)...(468)
<223> n = g, a, c or t/u

<400> 277
cacauuaacu gggaccgacg gunnucccu acccnnnnnn nnnnnnguga nnnnnnnnnn 60
nngguggagg ggauunnaau angggaacna cggugcggac gacccnnnaa gannnnnngg 120
gaccaaaacc guggcugccc ccgcaacugu aagcggaunn nnnnnnnnnn nnnnnnnnnn 180
nnnnnnnnnn nnnnnnnnnn nnnnnnncgu cguucauccu uguggcgcca aggcgccann 240
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnng ccacugcgcn 300
nnnnnnnnnn nnnnnnnnnn nnnnnnngcg uunnnnnnnn nnnnnnnnnn nnnnnnnnnn 360
nnnnnnnngc gcgggaaggc nagaugagcg acucunnnnn nnnnnnnnnn nnnnnnnnnn 420
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnguccgnug agccaggaga 480
ccugccguca aaucgaucca acguc 505


<210> 278
<211> 505
<212> RNA
<213> Sinorhizobium meliloti


<220>
<221> misc_feature
<222> (23)...(469)
<223> n = g, a, c or t/u

<400> 278
gcauaccaga ucaugugaug gunnuccgcc nnnnnnnnnn nncgacugaa gaacnnnnnn 60
nnnnnnnggc ggaugnnaaa angggaacna cggugaggac gacccnnnau cannnnnngg 120
ggcuaaaacc guggcugccc ccgcaacugu gangcggnnn nnnnnnnnnn nnnnnnnnnn 180
nnnnnnnnnn nnnnnnnnnn nnnnnncgag caaaguccaa ggaunnnnnn nnnnnnnnnn 240
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnng ccauuggccn 300
nnnnnnnnnn nnnnnnnnnn nnnnnnauga aucnnnnnnn nnnnnnnnnn nnnnnnnnnn 360
nnnnnnnngg cugauaaggc nnggacaaag cuacgacnnn nnnnnnnnnn nnnnnnnnnn 420
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnccgcnna agccaggaga 480
ccugccauca ccuugggcga cacgc 505
```

97

```
<210> 279
<211> 505
<212> RNA
<213> Streptomyces coelicolor

<220>
<221> misc_feature
<222> (24)...(469)
<223> n = g, a, c or t/u

<400> 279
uaggcuggcc cgugcagcug guuncgcccc guccnnnnnn nnnnnngcca nnnnnnnnnn 60
nnggcgggau gcgucgcaag angggaacnc cgguggnnnn nnnnnnnnnn nnnnnnnnnn 120
nnnngaaucc gggacugcnc ccgcagcggu gangcgggnn nnnnnnnnnn nnnnnnnnnn 180
nnnnnnnnnn nnnnnnnnnn nnnnnaacga ccgccgucau annnnnnnnn nnnnnnnnnn 240
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnc gcacugggcc 300
cgnnnnnnnn nnnnnnnnnn nnnnnnnacg uacnnnnnnn nnnnnnnnnn nnnnnnnnnn 360
nnnnncgggc ccgggaagcg nnacggccag uaggguccu ccggacagga gggugggnnn 420
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nncccgcnng aguccgaaga 480
ccugccaccu gcccgcgcgc ggacc                                     505

<210> 280
<211> 505
<212> RNA
<213> Streptomyces coelicolor

<220>
<221> misc_feature
<222> (23)...(469)
<223> n = g, a, c or t/u

<400> 280
uacgcugaug cccgcaguug gunnucgcgc cuccuguccn nnnnngauca nnnnnnnggu 60
cucggcggcg cgacgcnaag angggaacnc cgguggnnnn nnnnnnnnnn nnnnnnnnnn 120
nnnngaaucc gggacugunc ccgcagcggu gangugggnn nnnnnnnnnn nnnnnnnnnn 180
nnnnnnnnnn nnnnnnnnnn nnnnnaacga aagccgucaa cannnnnnnn nnnnnnnnnn 240
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn gcacugggcc 300
ccagnnnnnn nnnnnnnnnn nnnnnnnaug agnnnnnnnn nnnnnnnnnn nnnnnnnnnn 360
nnnuuggagc ccgggaagcn nngacggccg guaggugccc gccggugauc cguguccccg 420
gugagcgcgn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nncccacnng aguccgaaga 480
ccugccacug cgcccguacg cgaug                                     505

<210> 281
<211> 505
<212> RNA
<213> Streptomyces coelicolor

<220>
<221> misc_feature
<222> (23)...(469)
<223> n = g, a, c or t/u
```

```
<400> 281
gcagaccgua guaucagcgg gunncaucgn nnnnnnnnnn nnnnnnccgn nnnnnnnnnn 60
nnnnnnnncg acgggnnaga cnaggaagnc cggugunnnn nnnnnnnnnn nnnnnnnnnn 120
nnnngaaucc ggcacggucc cngccacugu ganccgggnn nnnnnnnnnn nnnnnnnnnn 180
nnnnnnnnnn nnnnnnnnnn nnnngagug cacccuucga cacnnnnnnn nnnnnnnnnn 240
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnng ccacugcgcn 300
nnnnnnnnnn nnnnnnnnnn nnnnnnnngc cnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 360
nnnnnnnngc gcgggaaggc cagggaggag cgucgannnn nnnnnnnnnn nnnnnnnnnn 420
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnuccggnng agucaggaca 480
cuggccuguc gcgggcccgu uccga                                    505
```

```
<210> 282
<211> 505
<212> RNA
<213> Streptomyces coelicolor
```

```
<220>
<221> misc_feature
<222> (23)...(468)
<223> n = g, a, c or t/u
```

```
<400> 282
uaugcucaug cucgcugucg ccnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 60
nnnnnnnnnn nnnnnnngca gngggaaunc cggugcnnnn nnnnnnnnnn nnnnnnnnnn 120
nnnngaaucc ggaacugunc ccgcaacggu gunacnnnnn nnnnnnnnnn nnnnnnnnnn 180
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn uugcgugcau cnnnnnnnnn nnnnnnnnnn 240
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn cguacgunnn 300
nnnnnnnnnn nnnnnnnnnn nnnnncuuc gcnnnnnnnn nnnnnnnnnn nnnnnnnnnn 360
nnnnnnnnnn nnacgugcgn ncgcacgccu nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 420
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnngucc aguccgagga 480
ccugccgaca gugcgcccgg ccgcc                                    505
```

```
<210> 283
<211> 505
<212> RNA
<213> Streptomyces coelicolor
```

```
<220>
<221> misc_feature
<222> (23)...(469)
<223> n = g, a, c or t/u
```

```
<400> 283
acuacugucg ccacgccuug gunnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 60
nnnnnnnnnn nnnnnnngaa cngggaaauc cggugunnnn nnnnnnnnnn nnnnnnnnnn 120
nnnngaugcc ggugcggccc ucgccacugu ganaucgggn nnnnnnnnnn nnnnnnnnnn 180
nnnnnnnnnn nnnnnnnnnn nnnnnnnaag uccggcuccg gcccugacgg gcannnnnnn 240
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnng ccacuggauc 300
gnnnnnnnnn nnnnnnnnnn nnnnnnncuu gnnnnnnnnn nnnnnnnnn nnnnnnnnnn 360
nnnnnncggu ccgggaaggc nnggagcacg ggcgguggua nnnnnnnnnn nnnnnnnnnn 420
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnccccgunna agccaggaga 480
ccggccaagg cgcgucgucc aucca                                    505
```

```
<210> 284
<211> 505
<212> RNA
<213> Shigella flexneri
```

99

```
<220>
<221> misc_feature
<222> (24)...(469)
<223> n = g, a, c or t/u

<400> 284
ccuguagcau ccacuugccg gucncunnnn nnnnnnnnnn nnnnnngugn nnnnnnnnnn 60
nnnnnnnnnn naguunnaau angggaaunc cagugcnnnn nnnnnnnnnn nnnnnnnnnn 120
nnnngaaucu agagcuganc gcgcagcggu aanggannnn nnnnnnnnnn nnnnnnnnnn 180
nnnnnnnnnn nnnnnnnnnn nnnnnaaggu gcgaugauug cguuaugcgn nnnnnnnnnn 240
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnng acacugccnn 300
nnnnnnnnnn nnnnnnnnnn nnnnnnnauc cnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 360
nnnnnnnnng gugggaaguc nnaucaucuc uuaguaucuu agauaccccn nnnnnnnnnn 420
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnuccnna agcccgaaga 480
ccugccggcc aacgucgcau cuggu                                     505


<210> 285
<211> 505
<212> RNA
<213> Shewanella oneidensis

<220>
<221> misc_feature
<222> (24)...(469)
<223> n = g, a, c or t/u

<400> 285
uuuugaguca accuucugug gugncuugcg augnnnnnnn nnnnnnauag nnnnnnnnnn 60
nnnncgucgc gagaunnaau cngggaagnc cagugannnn nnnnnnnnnn nnnnnnnnnn 120
nnnnaauucu ggcacugccc ccgcaacggu aaaaggunnn nnnnnnnnnn nnnnnnnnnn 180
nnnnnnnnnn nnnnnnnnnn nngagagacg gccgcauunn nnnnnnnnnn nnnnnnnnnn 240
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnncg auaggguuc 300
nnnnnnnnnn nnnnnnnnnn nnnnnnnacg aunnnnnnnn nnnnnnnnnn nnnnnnnnnn 360
nnnnnnngaa cccguaaauc gcagugugca aaggucaguu ucgcguuuau cucuagugag 420
auggauuaua nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnngccunna aguccggaga 480
ccggcccuaa agguguuuuu gagau                                     505


<210> 286
<211> 505
<212> RNA
<213> Shewanella oneidensis

<220>
<221> misc_feature
<222> (24)...(469)
<223> n = g, a, c or t/u

<400> 286
accaugcua uugcauuaag gucnauaaac gccggannnn nnnnnnnnnn nnnnnnnnnn 60
ucaacccaaa uaunnnnaau angggaaunc ggggcgcugn nnnnnnnccc gunnnnnnnn 120
ncagccagcc cgaacuguac ccgcaacugu ganguagnnn nnnnnnnnnn nnnnnnnnnn 180
nnnnnnnnnn nnnnnnnnnn nnuuaaaagaa gcgccuagau unnnnnnnnn nnnnnnnnnn 240
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn cuagauucua 300
gauucuagnn nnnnnnnnnn nnnnnnnauu nnnnnnnnnn nnnnnnnnnn nnnnnnnnnc 360
uagauucuag auucuaaagn nccuagcacc uucuuuunnn nnnnnnnnnn nnnnnnnnnn 420
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnncuacnna agucaggaga 480
ccugccuauu gcguuuucg cugcg                                      505
```

```
<210> 287
<211> 505
<212> RNA
<213> Salmonella typhimurium

<220>
<221> misc_feature
<222> (30)...(468)
<223> n = g, a, c or t/u

<400> 287
gccauaacgu aaaccaacag guuugccacn nnnnnnnnnn nnnnnnauuu nnnnnnnnnn 60
nnnnnnnngu ggunnnnnnn angggaagng gggugannnn nnnnnnnnnn nnnnnnnnnn 120
nnnnaaaucc cccgcagccc ccgcugcugu gaugcnnnnn nnnnnnnnnn nnnnnnnnnn 180
nnnnnnnnnn nnnnnnnnnn nnnnnnugac gaccccguaa agannnnnnn nnnnnnnnnn 240
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn ccacugaucn 300
nnnnnnnnnn nnnnnnnnnn nnnnnnngca annnnnnnnn nnnnnnnnnn nnnnnnnnnn 360
nnnnnnnnga uugggaaggn nnacgggcga ggaggacnnn nnnnnnnnnn nnnnnnnnnn 420
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnngcnua agccagaaga 480
ccugccuguc ggugauaacc aacaa                                     505
```

```
<210> 288
<211> 505
<212> RNA
<213> Salmonella typhimurium

<220>
<221> misc_feature
<222> (24)...(469)
<223> n = g, a, c or t/u

<400> 288
acgguagcau ccgugggccg gucncunnnn nnnnnnnnnn nnnnnnngug nnnnnnnnnn 60
nnnnnnnnnn naguunnaau angggaaunc cagugannnn nnnnnnnnnn nnnnnnnnnn 120
nnnnaaaucu ggagcuganc gcgcagcggu aanggannnn nnnnnnnnnn nnnnnnnnnn 180
nnnnnnnnnn nnnnnnnnnn nnnnnnaagg ugagaugaga gcguaagcan nnnnnnnnnn 240
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnng acacugccnn 300
nnnnnnnnnn nnnnnnnnnn nnnnnnnnuc cnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 360
nnnnnnnnng gcgggaaguc naucauuucu gcuaccagc caacggauaa cccnnnnnnn 420
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnuccnna agcccgaaga 480
ccugccggcu aacgucgcau cuggu                                     505
```

```
<210> 289
<211> 505
<212> RNA
<213> Thermotoga maritima

<220>
<221> misc_feature
<222> (23)...(469)
<223> n = g, a, c or t/u
```

<400> 289
gaagccuccc ucaccgugcg gunnacccnn nnnnnnnnnn nnnnnnuucg nnnnnnnnnn 60
nnnnnnnnng gguucnnaaa gngggaagnc cggugannnn nnnnnnnnnn nnnnnnnnnn 120
nnnnaaaucc ggcgcggggn ccgccaccgu ganccgggnn nnnnnnnnnn nnnnnnnnnn 180
nnnnnnnnnn nnnnnnnnnn nnnnngacg aaacccgcag aacnnnnnnn nnnnnnnnnn 240
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnng ccacuggggn 300
nnnnnnnnnn nnnnnnnnnn nnnnncgau cannnnnnnn nnnnnnnnnn nnnnnnnnnn 360
nnnnnnnncc cugggaaggc nngcggggag uaggaugann nnnnnnnnnn nnnnnnnnnn 420
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnuccggnna agccgggaaa 480
cccgcccgcg gugaagggga accac   505

<210> 290
<211> 505
<212> RNA
<213> Thermoanaerobacter tengcongensis

<220>
<221> misc_feature
<222> (23)...(469)
<223> n = g, a, c or t/u

<400> 290
uugaauauua aagccuuaug gunncccnnn nnnnnnnnnn nnnnnaugau nnnnnnnnnn 60
nnnnnnnnnn gguunnaaa angggaagac ggugannnn nnnnnnnnnn nnnnnnnnnn 120
nnnngaaucc cgcgcagccc ccgcuacugu ganggannn nnnnnnnnnn nnnnnnnnnn 180
nnnnnnnnnn nnnnnnnnnn nnnnnggac gaagcccuag uaannnnnnn nnnnnnnnnn 240
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnng ccacuguccg 300
gcacucaacu gagcgcgnnn uuaguaagga gaaaagaggg agagaaaunn ugcguucagu 360
ugagugccgg gugggaaggc nnagggugga ggaugagnnn nnnnnnnnnn nnnnnnnnnn 420
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnucccnng agccaggaga 480
ccugccauaa gguuuuagaa guucg   505

<210> 291
<211> 505
<212> RNA
<213> Thermoanaerobacter tengcongensis

<220>
<221> misc_feature
<222> (23)...(469)
<223> n = g, a, c or t/u

<400> 291
ugaauauaaa aagccuuaug gunncccnnn nnnnnnnnnn nnnnngugau nnnnnnnnnn 60
nnnnnnnnnn gguunnaaa angggaagac ggugannnn nnnnnnnnnn nnnnnnnnnn 120
nnnngaaucc cgcgcagccc ccgcuacugu ganggannn nnnnnnnnnn nnnnnnnnnn 180
nnnnnnnnnn nnnnnnnnnn nnnnnggac gaagcccuag uaannnnnnn nnnnnnnnnn 240
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnng ccacuguccg 300
gcacucaacu gagcgcgnnn uuaguaagga gaaaagaggg agagaaaunn ugcguucagu 360
ugagugccgg augggaaggc nnagggugga ggaugagnnn nnnnnnnnnn nnnnnnnnnn 420
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnucccnng agccaggaga 480
ccugccauaa gguuuuaaa aguuc   505

<210> 292
<211> 505
<212> RNA
<213> Vibrio cholerae

102

<220>
<221> misc_feature
<222> (23)...(469)
<223> n = g, a, c or t/u

<400> 292
auacuaucag cgccaagcug gunngcuauu uagaugccnn nnnnnnugga unnnnnnnnn 60
ggcuaaaaau ggcugnnaaa angggaaunc cggugunnnn nnnnnnnnnn nnnnnnnnnn 120
nnnnaacucc ggaacuganc gcgcagcggu aangagagnn nnnnnnnnnn nnnnnnnnnn 180
nnnnnnnnnn nnnnnnnnnn nnnnnnnaac gaacgcucaa acnnnnnnnn nnnnnnnnnn 240
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnng acacugcunn 300
nnnnnnnnnn nnnnnnnnnn nnnnnnnuuu cgnnnnnnnn nnnnnnnnnn nnnnnnnnnn 360
nnnnnnnnna gugggaaguc nngagccagu aggccaacag ugnnnnnnnn nnnnnnnnnn 420
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nncucucnna aguccgaaga 480
ccugccagca acugaguuau gcagu   505

<210> 293
<211> 505
<212> RNA
<213> Vibrio vulnificus

<220>
<221> misc_feature
<222> (23)...(468)
<223> n = g, a, c or t/u

<400> 293
auaguaugcg cuucaagcug gunngcuauc ugnnnnnnnn nnnnngaagu annnnnnnnn 60
nnnnnuagau ggcugnnaaa angggaaunc cggugunnnn nnnnnnnnnn nnnnnnnnnn 120
nnnngaaucc ggaacuganc gcgcagcggu aauagagnnn nnnnnnnnnn nnnnnnnnnn 180
nnnnnnnnnn nnnnnnnnnn nnnnnnnaac gaaagcuuaa ucannnnnnn nnnnnnnnnn 240
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnng acacugcacg 300
aunnnnnnnn nnnnnnnnnn nnnnnnngga nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 360
nnnnnaucgu gugggaaguc nnaggcaagu agguuaacag nnnnnnnnnn nnnnnnnnnn 420
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnncucunug aguccgaaua 480
ccugccagca acugagcaaa cacug   505

<210> 294
<211> 505
<212> RNA
<213> Xanthomonas campestris

<220>
<221> misc_feature
<222> (24)...(469)
<223> n = g, a, c or t/u

<400> 294
cuaccaugcg cgccccugag gugnacugcc ggnnnnnnnn nnnnnnaauu nnnnnnnnnn 60
nnnnnccggu gguuunnaaa cngggaaunc cggugcgcgc aucgcnnncu ugnnngcgag 120
acgcaagucc ggagcugccc ccgcaacggu gggngcagnn nnnnnnnnnn nnnnnnnnnn 180
nnnnnnnnnn nnnnnnnnnn nnnnnnguca ggugccgcaa cagnnnnnnn nnnnnnnnnn 240
nnnnnnnnnn nnnnnnnnnn nnnnnnnacn cnnnnnnnnn nnnnnnnnng ccacugugcn 300
nnnnnnnnnn nnnnnnnnnn nnnnnnnaca cnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 360
nnnnnnnngc augggaaggc nngcgguacc ggaagcgcag gcuuccannn nnnnnnnnnn 420
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nncucgcnng agcccggaga 480
ccggccugag ggauugaccc ggcac   505

<210> 295
<211> 505
<212> RNA
<213> Xanthomonas citri

<220>
<221> misc_feature
<222> (24)...(469)
<223> n = g, a, c or t/u

<400> 295
cuaccaugcg cgccccugag gugnacugcc ggnnnnnnnn nnnnnnuugg nnnnnnnnnn 60
nnnnnccggu gguuunnaaa cngggaaunc cggugcgcgg aucgcnnncu ugnnngcgag 120
cugcaauucc ggagcugccc ccgcaacggu gggncgagnn nnnnnnnnnn nnnnnnnnnn 180
nnnnnnnnnn nnnnnnnnnn nnnnnguca gaugccgcac uacnnnnnnn nnnnnnnnnn 240
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnng ccacugugcn 300
nnnnnnnnnn nnnnnnnnnn nnnnnnnagu cnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 360
nnnnnnnngc augggaaggc nngcggcauc ggaagcgcca gcuuccannn nnnnnnnnnn 420
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nncucgcnna agcccggaga 480
ccggccugag ggauugaccc ggcac 505

<210> 296
<211> 505
<212> RNA
<213> Yersinia pestis

<220>
<221> misc_feature
<222> (39)...(469)
<223> n = g, a, c or t/u

<400> 296
uacuugaucg uagcauugug guccggccuc augcuguunn nnnnnnauuu annnnnnnnn 60
naacaccuaa gaguunnaaa angggaaunc cggugunnnn nnnnnnnnnn nnnnnnnnnn 120
nnnnaaaucc ggagcuganc gcgcagcggu aaggggannn nnnnnnnnnn nnnnnnnnnn 180
nnnnnnnnnn nnnnnnnnnn nnnnnaguc acggcgauag guuucuaaca nnnnnnnnnn 240
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnng acacuguccn 300
nnnnnnnnnn nnnnnnnnnn nnnnnngca annnnnnnnn nnnnnnnnnn nnnnnnnnnn 360
nnnnnnnngg augggaaguc nnaucgccug cucuauuucg cgccauuuau uuaucacagu 420
auuuuuacug ucauaaccau ggccugauac cagagannnn nnnuccunna agcccgaaga 480
ccugccggua uuacgucgca auauu 505

<210> 297
<211> 506
<212> RNA
<213> Acinetobacter calcoaceticus

<220>
<221> misc_feature
<222> (30)...(470)
<223> n = g, a, c or t/u

<400> 297
cuuuacacaa uucguaacaa guuaaaagcn nnnnnnnnnn nnnnnnauuc nnnnnnnnnn 60
nnnnnnnngc uuunnnnnnn angggaaanc uggugcnnnn nnnnnnnnnn nnnnnnnnnn 120
nnnnaaauac cagugcugcc cccgcaacgg uaanaaaugn nnnnnnnnnn nnnnnnnnnn 180
nnnnnnnnnn nnnnnnnnnn nnnnnnnnua aaccauauua aaaaagucau uuagacuuan 240
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnc gccacugcau 300
nnnnnnnnnn nnnnnnnnnn nnnnnnngca uagnnnnnnn nnnnnnnnnn nnnnnnnnnn 360
nnnnnnnnna uguggaagg ugnaauaugc uugucucuuu uugagaugcn nnnnnnnnnn 420
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnncauuunn gaguccggag 480
accugcuugu uacaucuauc cacuca   506

<210> 298
<211> 505
<212> RNA
<213> Agrobacterium vitis

<220>
<221> misc_feature
<222> (23)...(469)
<223> n = g, a, c or t/u

<400> 298
ccuaaagugg cagcguaucg gunnucugca agugunnnnn nnnnnncaaa nnnnnnnnnn 60
nnacgcncgc ggaugnnaaa angggaauna cggugaggac gacccnnaag uaannnnnng 120
ggccgaaacc guggcugccc ccgcaacugu ganacggnnn nnnnnnnnnn nnnnnnnnnn 180
nnnnnnnnnn nnnnnnnnnn nnnnnncgag cgauguccau caunnnnnnn nnnnnnnnnn 240
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnng ccauuggccn 300
nnnnnnnnnn nnnnnnnnnn nnnnnnncca cnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 360
nnnnnnnngg ccgauaaggc nnggacaaag cccagacnnn nnnnnnnnnn nnnnnnnnnn 420
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnccgunng agccaggaga 480
ccugccgaua agcaugcgcg aaagc   505

<210> 299
<211> 505
<212> RNA
<213> Bacteroides fragilis

<220>
<221> misc_feature
<222> (23)...(469)
<223> n = g, a, c or t/u

<400> 299
uuaucuuugc ucccugaucg gunnuccgaa uagnnnnnnn nnnnnucauu ccunnnnnnn 60
nnnncuaucc ggauunnaaa angggaaunc gggugunnnn nnnnnnnnnn nnnnnnnnnn 120
nnnnaaaucc cggacagunc ccgcugcugu gaagcuccnn nnnnnnnnnn nnnnnnnnnn 180
nnnnnnnnnn nnnnnnnnnn nnngucugaa uuuccgauaa caacuguunn nnnnnnnnnn 240
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnng ccacugggau 300
accuuuuugn nnnnnnnnnn nnnnnnnuaa annnnnnnnn nnnnnnnnnn nnnnnnuaga 360
uaaggaguca ccgggaaggc nngucggaaa caannnnnnn nnnnnnnnnn nnnnnnnnnn 420
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnggagunnc agucagaaga 480
ccugccgcuu aucaaaggcu guuuc   505

<210> 300
<211> 505
<212> RNA
<213> Bacillus megaterium

105

<220>
<221> misc_feature
<222> (23)...(469)
<223> n = g, a, c or t/u

<400> 300
aucaaacagc aacaguaaag gunngccnnn nnnnnnnnnn nnnnnnaaga annnnnnnnn 60
nnnnnnnnnn ggcuunnaau angggaaanc uggugannnn nnnnnnnnnn nnnnnnnnnn 120
nnnnaagacc aguacugccc ccgcaacugu aangugugnn nnnnnnnnnn nnnnnnnnnn 180
nnnnnnnnnn nnnnnnnnnn nnnnnnnnga cgaacgagua unnnnnnnnn nnnnnnnnnn 240
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnaa ccacugugan 300
nnnnnnnnnn nnnnnnnnnn nnnnnnaaaa annnnnnnnn nnnnnnnnnn nnnnnnnnnn 360
nnnnnnnnuc acgggaaggu uncucaagua gaaugannnn nnnnnnnnnn nnnnnnnnnn 420
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnuacacnna agucaggaga 480
ccugucuuua uugugaaguu ucuau 505

<210> 301
<211> 505
<212> RNA
<213> Leishmania major

<220>
<221> misc_feature
<222> (1)...(469)
<223> n = g, a, c or t/u

<400> 301
nnnnnnnnnn nnnnnnucgg gugncccunn nnnnnnnnnn nnnnnnucac nnnnnnnnnn 60
nnnnnnnnna gggugnnaaa cngggaaanc cggugaguca uguuccuuua cucaagggcg 120
ugacgagucc ggugcugccc ccgcaacggu aangcgagnn nnnnnnnnnn nnnnnnnnnn 180
nnnnnnnnnn nnnnnnnnnn nnnnnnnnug aagcgucaaa unnnnnnnnn nnnnnnnnnn 240
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn ccacugugcc 300
nnnnnnnnnn nnnnnnnnnn nnnnnnucca gnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 360
nnnnnnnggc augggaaggn nnugaugcuu ucaaggccca ggcccnnnnn nnnnnnnnnn 420
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nncucgcnna agcccggaga 480
ccggcccgaa aaaaucagau aacaa 505

<210> 302
<211> 505
<212> RNA
<213> Propionibacterium freudenreichii

<220>
<221> misc_feature
<222> (24)...(469)
<223> n = g, a, c or t/u

<400> 302
uguguaggcu aguagugcug guucggcug ccnnnnnnnn nnnnnnccac nnnnnnnnnn 60
nnnnnggcag ucgucgcaag angggaaunc cggugunnnn nnnnnnnnnn nnnnnnnnnn 120
nnnnaauucc ggaacugunc ccgcagcggu canaugggnn nnnnnnnnnn nnnnnnnnnn 180
nnnnnnnnnn nnnnnnnnnn nnnnnnnaac gacacaacgu aagnnnnnnn nnnnnnnnnn 240
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn gcacugggcg 300
nnnnnnnnnn nnnnnnnnnn nnnnnnngca annnnnnnnn nnnnnnnnnn nnnnnnnnnn 360
nnnnnnncgc cugggaagun naguagugga ggaagucggg agugaucucg caaugnnnnn 420
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nncccaunng aguccgaaga 480
ccugccagca gcgacaacau cuguu 505

106

<210> 303
<211> 505
<212> RNA
<213> Rhodobacter capsulatus

<220>
<221> misc_feature
<222> (24)...(468)
<223> n = g, a, c or t/u

<400> 303
gccacucagg gcgggcgcug guunucuguc nnnnnnnnnn nnnnnncuau nnnnnnnnnn 60
nnnnnnngac aggcgnnaag angggaaung ugaagggaau ugcgacggcu uunngccgcg 120
aaacccgacc gcagccgccc ccgcgaccgu gaccggannn nnnnnnnnnn nnnnnnnnnn 180
nnnnnnnnnn nnnnnnnnnn nnnnnngag ggcgccccga gnnnnnnnnn nnnnnnnnnn 240
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnng ccacuggcnn 300
nnnnnnnnnn nnnnnnnnnn nnnnnacca nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 360
nnnnnnnnng ccgggaaggc nngggggcgac cgugagggga cccccccucg cannnnnnnn 420
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnuccgnca agccgggaga 480
ccugccagcg cauggauuuc gggcg 505

<210> 304
<211> 505
<212> RNA
<213> Rhodobacter capsulatus

<220>
<221> misc_feature
<222> (23)...(469)
<223> n = g, a, c or t/u

<400> 304
ggcuacucca acaggcgaug gunnucccnn nnnnnnnnnn nnnnaacugg acnnnnnnnn 60
nnnnnnnng ggauunnaau angggaacna cggugaggau uacccnnnau cannnnnngg 120
ggccuaaucc guggcugccc ccgcaacugu gangcggnnn nnnnnnnnnn nnnnnnnnnn 180
nnnnnnnnnn nnnnnnnnnn nnnncgaga cgacggucga agnnnnnnnn nnnnnnnnnn 240
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnna ccacuggccc 300
ccccgnnnn nnnnnnnnnn nnnnaucca cnnnnnnnnn nnnnnnnnnn nnnnnnnncg 360
gggagaacgg ccgggaaggu nngacccgag uugaucgaan nnnnnnnnnn nnnnnnnnnn 420
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnccgcnna agucaggaga 480
ccugccaucg cucuggcguc gcaag 505

<210> 305
<211> 505
<212> RNA
<213> Rhodobacter capsulatus

<220>
<221> misc_feature
<222> (24)...(469)
<223> n = g, a, c or t/u

<400> 305
```
gggcaccuuc gcggcagaug guucccggc caagcnnnnn nnnnnncacn nnnnnnnnnn 60
nngcgcggcc gggugnnaaa angggaauna cgguguggug uaggcnnnau cannnnnngc 120
cgccaaaucc guaacugccc ccgcaacugu aangcggnnn nnnnnnnnnn nnnnnnnnnn 180
nnnnnnnnnn nnnnnnnnnn nnnnnnncg agcacccccc ggcannnnnn nnnnnnnnnn 240
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnna ccacuggccc 300
cgnnnnnnnn nnnnnnnnnn nnnnnnaccg nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 360
nnnnncgggg ccgggaaggu nngggggaagc cacgacnnnn nnnnnnnnnn nnnnnnnnnn 420
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnccgcnna agucaggaga 480
ccugccauca gcgucaucaa ccgcc                                     505
```

<210> 306
<211> 505
<212> RNA
<213> Rhodobacter sphaeroides

<220>
<221> misc_feature
<222> (22)...(469)
<223> n = g, a, c or t/u

<400> 306
```
uguuuugugg caggggucag gngnccgccn nnnnnnnnnn nnnnnnuucg nnnnnnnnnn 60
nnnnnnnngg cggagnnaau cngggaagnc cgguggnnnn nnnnnnnnnn nnnnnnnnnn 120
nnnnaaaucc ggcgcggggnc ccgccgcugu gancggnnnn nnnnnnnnnn nnnnnnnnnn 180
nnnnnnnnnn nnnnnnnnnn nnnnnggaug cuccgggcaa gagnnnnnnn nnnnnnnnnn 240
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnng ccaccggunn 300
nnnnnnnnnn nnnnnnnnnn nnnnnnuucn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 360
nnnnnnnnng ccgggaaggc nngcccggcg gcagaugaan nnnnnnnnnn nnnnnnnnnn 420
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnccgnng agccagaaga 480
ccggccugac gcagagguuc ccgcc                                     505
```

<210> 307
<211> 505
<212> RNA
<213> Sorghum bicdor

<220>
<221> misc_feature
<222> (24)...(469)
<223> n = g, a, c or t/u

<400> 307
```
uagacugcgc ccacuuccag gugnaccugc ggcnnnnnnn nnnnnncaug nnnnnnnnnn 60
nnngccggca gguugnnaaa cnggnaagnc cggugacgcg ugnnnnnnau ucnnnnnnnc 120
acgccaggcc ggcgcugccc ccgcaacggu aangcacguc nnnnnnnnnn nnnnnnnnnn 180
nnnnnnnnnn nnnnnnnnnn nnnnnnnnag ucccaggcaa caacnnnnnn nnnnnnnnnn 240
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnng ccacugugcc 300
nnnnnnnnnn nnnnnnnnnn nnnnnacgn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 360
nnnnnnnggc augggaaggc nngccuggac gguggccucg cgccacccnn nnnnnnnnnn 420
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nggcggcnna agcccggaga 480
ccggcccgga agccucaggu cgcga                                     505
```

<210> 308
<211> 505
<212> RNA
<213> Streptomyces griseus

```
<220>
<221> misc_feature
<222> (24)...(469)
<223> n = g, a, c or t/u

<400> 308
uaggcugacc ggugcagcug guucgcccu guccnnnnnn nnnnnngcca nnnnnnnnnn 60
nnnnggcagg gugucgcaag angggaacnc cgguggnnnn nnnnnnnnnn nnnnnnnnnn 120
nnnnaaauuc gggacugcnc ccgcagcggu gangugggnn nnnnnnnnnn nnnnnnnnnn 180
nnnnnnnnnn nnnnnnnnnn nnnnnnaacg accgccguca uannnnnnnn nnnnnnnnnn 240
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnc gcacugggcc 300
cnnnnnnnnn nnnnnnnnnn nnnnnnngga cnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 360
nnnnnngggu cugggaagcg nnacggccac uaggugucug cccggcagac gugnnnnnnn 420
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nncccgcnng aguccgaaga 480
ccugcccgcu gcccgcacgc gaccg 505


<210> 309
<211> 505
<212> RNA
<213> Stealth virus

<220>
<221> misc_feature
<222> (23)...(469)
<223> n = g, a, c or t/u

<400> 309
aucgcucgcu ucaggaaacg gunnucugcc cnnnnnnnnn nnnnnngaga nnnnnnnnnn 60
nnnnnngggu ggaugnnaaa angggaacna cggugaagca nnnnnnuua aaunnnnnnn 120
ugcugaugcc gagacugccc ccgcaacugu aanccggnnn nnnnnnnnnn nnnnnnnnnn 180
nnnnnnnnnn nnnnnnnnnn nnnnagagu cauccuccua ugaucguauc uuacgauuau 240
annnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnng ccacugagca 300
nnnnnnnnnn nnnnnnnnnn nnnnnuucg nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 360
nnnnnnugu ucgggaaggc nnggaggacc gaugaagacn nnnnnnnnnn nnnnnnnnnn 420
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnccggnna agucaggaga 480
ccugccguau ccagucaccc auggc 505


<210> 310
<211> 505
<212> RNA
<213> Zymomonas mobilis

<220>
<221> misc_feature
<222> (23)...(469)
<223> n = g, a, c or t/u

<400> 310
cggaaauuuu uuugcauagg gunnuuccuu cnnnnnnnnn nnnnnngagu nnnnnnnnnn 60
nnnnnngaag gaannnnaau ungggaacna aggugcnnnn nnnnnnnnnn nnnnnnnnnn 120
nnnnaaaacc uuggcugccc cugcaacugu aanacagunn nnnnnnnnnn nnnnnnnnnn 180
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnu gaaacgccaa aaannnnnnn nnnnnnnnnn 240
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnng ccacugaann 300
nnnnnnnnnn nnnnnnnnnn nnnnnnnucu annnnnnnnn nnnnnnnnnn nnnnnnnnnn 360
nnnnnnnnnu ucgggaaggc nngguuguuu cgaunnnnnn nnnnnnnnnn nnnnnnnnnn 420
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nngcugunng agccaggaga 480
ccgacccuau guaaucguuc cacga 505
```

109

```
<210> 311
<211> 505
<212> RNA
<213> Zymomonas mobilis

<220>
<221> misc_feature
<222> (24)...(468)
<223> n = g, a, c or t/u

<400> 311
agcaaugagg aaggauuaag guuncuuugu nnnnnnnnnn nnnnncauug nnnnnnnnnn 60
nnnnnnngca aagcunnaag angggaaanc uggugcgaaa nnnnnnnnga aunnnnnnnn 120
uuucaaagcc agugcugccc ccgcaacugu aanacggnnn nnnnnnnnnn nnnnnnnnnn 180
nnnnnnnnnn nnnnnnnnnn nnnnncgagc aaagaucaaa aunnnnnnnn nnnnnnnnnn 240
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnng ccacugauan 300
nnnnnnnnnn nnnnnnnnnn nnnnnnuuau nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 360
nnnnnnnnua ucgggaaggc nnugaucgga cgcggugacn nnnnnnnnnn nnnnnnnnnn 420
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnccgunca agucaggaga 480
ccugccuuaa accaagucau ccacu                                      505
```

```
<210> 312
<211> 105
<212> DNA
<213> Bacillus halodurans

<220>
<221> misc_feature
<222> (43)...(80)
<223> n = g, a, c or t/u

<400> 312
acatgtagat atcatccctt tcgtatatac ttggagataa ggntccagga gtttctacca 60
gatcaccgta aatgatctgn actatgaagg tggaatggct cgata                105
```

```
<210> 313
<211> 105
<212> DNA
<213> Bacillus halodurans

<220>
<221> misc_feature
<222> (43)...(80)
<223> n = g, a, c or t/u

<400> 313
aataaatcga aaacatcatt tcgtataatg gcaggaatag ggncctgcga gtttctacca 60
agctaccgta aatagcttgn actacgaaaa taatgggttt tttac                105
```

```
<210> 314
<211> 105
<212> DNA
<213> Bacillus halodurans
```

```
<220>
<221> misc_feature
<222> (43)...(80)
<223> n = g, a, c or t/u

<400> 314
cgttctttat ataaagtacc tcatataatc ttgggaatat ggncccaaaa gtttctacct 60
gctgaccgta aatcggcggn actatgggga aagattttgg atctt          105


<210> 315
<211> 105
<212> DNA
<213> Bacillus halodurans

<220>
<221> misc_feature
<222> (28)...(79)
<223> n = g, a, c or t/u

<400> 315
ttaatcgagc tcaacactct tcgtatantc ctctcaatat ggngatgagg gtctctacag 60
gtannccgta aatacctnna gctacgaaaa gaatgcagtt aatgt          105


<210> 316
<211> 105
<212> DNA
<213> Bacillus halodurans

<220>
<221> misc_feature
<222> (43)...(80)
<223> n = g, a, c or t/u

<400> 316
atttacatta aaaaaagcac tcgtataatc gcgggaatag ggncccgcaa gtttctacca 60
ggctgccgta aacagcctgn actacgagtg atactttgac ataga          105


<210> 317
<211> 105
<212> DNA
<213> Bacillus subtilis

<220>
<221> misc_feature
<222> (43)...(80)
<223> n = g, a, c or t/u

<400> 317
agaaatcaaa taagatgaat tcgtataatc gcgggaatat ggnctcgcaa gtctctacca 60
agctaccgta aatggcttgn actacgtaaa catttctttc gtttg          105


<210> 318
<211> 105
<212> DNA
<213> Bacillus subtilis
```

```
<220>
<221> misc_feature
<222> (43)...(80)
<223> n = g, a, c or t/u

<400> 318
catgaaatca aaacacgacc tcatataatc ttgggaatat ggncccataa gtttctaccc 60
ggcaaccgta aattgccggn actatgcagg aaagtgatcg ataaa              105


<210> 319
<211> 105
<212> DNA
<213> Bacillus subtilis

<220>
<221> misc_feature
<222> (43)...(80)
<223> n = g, a, c or t/u

<400> 319
ttacaatata ataggaacac tcatataatc gcgtggatat ggncacgcaa gtttctaccg 60
ggcanccgta aantgtccgn actatgggtg agcaatggaa ccgca              105


<210> 320
<211> 105
<212> DNA
<213> Bacillus subtilis

<220>
<221> misc_feature
<222> (43)...(80)
<223> n = g, a, c or t/u


<400> 320
catcttagaa aaagacattc ttgtatatga tcagtaatat ggntctgatt gtttctacct 60
agtaaccgta aaaaactagn actacaagaa agtttgaata aattt              105


<210> 321
<211> 105
<212> DNA
<213> Clostridium acetobutylicum

<220>
<221> misc_feature
<222> (29)...(80)
<223> n = g, a, c or t/u

<400> 321
tatataaaaa actaaatttc tcgtatacna ccggtaatat ggntccggaa gtttctacct 60
gctgnccata aantagcagn actacggggt gttattgata atata              105


<210> 322
<211> 105
<212> DNA
<213> Clostridium acetobutylicum
```

```
<220>
<221> misc_feature
<222> (43)...(80)
<223> n = g, a, c or t/u

<400> 322
gaaaagtaat aacatattac ccgtatatgc ttagaaatat ggntctaagc gtctctaccg 60
gactgccgta aattgtctgn actatgggtg tttataagta tttta           105

<210> 323
<211> 105
<212> DNA
<213> Clostridium acetobutylicum

<220>
<221> misc_feature
<222> (29)...(80)
<223> n = g, a, c or t/u

<400> 323
aatcgttaat atagtttaac tcatatatnt tcctgaatat ggnncaggat gtttctacaa 60
ggaancctta aantttcttn actatgagtg atttgtttgt atgca           105

<210> 324
<211> 105
<212> DNA
<213> Clostridium perfringens

<220>
<221> misc_feature
<222> (43)...(80)
<223> n = g, a, c or t/u

<400> 324
tatgtactta tataagtata tcgtatatgc tcgacgatat ggngttgagt gtttctacta 60
ggaggccgta aacatcctan actacgaata tataggtgat ttcta           105

<210> 325
<211> 105
<212> DNA
<213> Clostridium perfringens

<220>
<221> misc_feature
<222> (43)...(80)
<223> n = g, a, c or t/u

<400> 325
taagtgtatt aaattttaac tcgtatataa tcggtaatat ggntccgaaa gtttctacct 60
gctaaccgta aaatagcagn actacgagga gttgtactat aaatt           105

<210> 326
<211> 105
<212> DNA
<213> Clostridium perfringens
```

```
<220>
<221> misc_feature
<222> (29)...(80)
<223> n = g, a, c or t/u

<400> 326
aaaacggaat ataaacaaac tcgtataang ctttgaataa ggnncaaggc gtttctaccg 60
gaaanccta aantttccgn tctatgagtg aatttgatat actat            105

<210> 327
<211> 105
<212> DNA
<213> Fusobacterium nucleatum

<220>
<221> misc_feature
<222> (29)...(73)
<223> n = g, a, c or t/u

<400> 327
taaataattt taataaaaat tcgtataang cctaatatat ggnnaagggt gtccctacgg 60
ttaanccata aanttaacca gctacgaaaa atgttttact gtgtt            105

<210> 328
<211> 105
<212> DNA
<213> Lactococcus lactis

<220>
<221> misc_feature
<222> (28)...(80)
<223> n = g, a, c or t/u

<400> 328
gtctataata gaacaatctt atttatannn cctaggatat ggnnctgggc gtttctacct 60
cgtanccgta aantgcgagn acaataagga aattcgattt tttag            105

<210> 329
<211> 105
<212> DNA
<213> Listeria monocytogenes

<220>
<221> misc_feature
<222> (43)...(80)
<223> n = g, a, c or t/u

<400> 329
aatccgctac aatatatag tcgtataagt tcggtaatat ggnaccgttc gtttctacca 60
ggcaaccgta aaatgccagn gctacgagct attgtaaaat ttaat            105

<210> 330
<211> 105
<212> DNA
<213> Listeria monocytogenes
```

<220>
<221> misc_feature
<222> (39)...(80)
<223> n = g, a, c or t/u

<400> 330
ataacttaaa accgaaatac ttgtataata gttgcgatnt ggngcgacga gtttctacct 60
ggttaccgta aataaccggn actatgagta gtttgtataa agaag 105

<210> 331
<211> 105
<212> DNA
<213> Oceanobacillus iheyensis

<220>
<221> misc_feature
<222> (43)...(80)
<223> n = g, a, c or t/u

<400> 331
caatttttat ccaatgcctt tcgtatatcc tcgataatat ggnttcgaaa gtatctaccg 60
ggtcaccgta aatgatctgn actatgaagg cagaagcagg ttcgg 105

<210> 332
<211> 105
<212> DNA
<213> Ocenobacillus iheyensis

<220>
<221> misc_feature
<222> (43)...(80)
<223> n = g, a, c or t/u

<400> 332
tgatgtaatt gaatagaaat gcgtataatt aaggggatat ggnncccaca gtttctacca 60
gaccaccgta aatggtttgn actacgcagt aattatattt gtatc 105

<210> 333
<211> 105
<212> DNA
<213> Oceanobacillus iheyensis

<220>
<221> misc_feature
<222> (43)...(80)
<223> n = g, a, c or t/u

<400> 333
ccgacaattg aaaatgaacc tcatataaat ttgagaatat ggnctcagaa gtttctaccc 60
agcanccgta aatggctggn actatgaggg aagatggatc atttc 105

<210> 334
<211> 105
<212> DNA
<213> Oceanobacillus iheyensis

```
<220>
<221> misc_feature
<222> (43)...(80)
<223> n = g, a, c or t/u

<400> 334
aaaccttata tatagttttt tcatataatc gcggggatat ggncctgcaa gtttctaccg 60
gtttaccgta aatgaaccgn actatggaaa agcggaaaat tcgat            105


<210> 335
<211> 105
<212> DNA
<213> Staphylococcus aureus

<220>
<221> misc_feature
<222> 80
<223> n = g, a, c or t/u

<400> 335
gttaaataat ttacataaac tcatataatc taaagaatat ggctttagaa gtttctacca 60
tgttgccttg aacgacatgn actatgagta acaacacaat actag            105


<210> 336
<211> 105
<212> DNA
<213> Staphylococcus epidermidis

<220>
<221> misc_feature
<222> 80
<223> n = g, a, c or t/u

<400> 336
cataaaataa tttatatgac tcatataatc tagagaatat ggctttagaa gtttctaccg 60
tgtcgccata aacgacacgn actatgagta acaatccaat acatt            105


<210> 337
<211> 105
<212> DNA
<213> Streptococcus agalactiae

<220>
<221> misc_feature
<222> (29)...(80)
<223> n = g, a, c or t/u

<400> 337
caattaaata tatgatttac ttatttatng ctgaggatnt ggnncttagc gtctctacaa 60
gacanccgtn aantgtctan acaataagta agctaataaa tagct            105


<210> 338
<211> 105
<212> DNA
<213> Streptococcus pyogenes
```

```
<220>
<221> misc_feature
<222> (29)...(80)
<223> n = g, a, c or t/u

<400> 338
tgaattcaat aatgacatac ttatttatng ctgtgaatnt ggnncgcagc gtctctacaa 60
gacanccntt aantgtctan acaataagta agcttttagg cttgc                  105


<210> 339
<211> 105
<212> DNA
<213> Streptococcus pneumoniae

<220>
<221> misc_feature
<222> (29)...(79)
<223> n = g, a, c or t/u

<400> 339
aaaattgaat atcgttttac ttgtttatng tcgtgaatnt ggnncacgac gtttctacaa 60
ggtgnccngg aancacctna acaataagta agtcagcagt gagat                  105


<210> 340
<211> 105
<212> DNA
<213> Thermoanaerobacter tengcongensis

<220>
<221> misc_feature
<222> (43)...(80)
<223> n = g, a, c or t/u

<400> 340
aaaaatttaa taagaagcac tcatataatc ccgagaatat ggnctcggga gtctctaccg 60
aacaaccgta aattgttcgn actatgagtg aaagtgtacc taggg                  105


<210> 341
<211> 105
<212> DNA
<213> Bacillus subtilis

<220>
<221> misc_feature
<222> (43)...(80)
<223> n = g, a, c or t/u

<400> 341
aattaaatag ctattatcac ttgtataacc tcaataatat ggntttgagg gtgtctacca 60
ggaanccgta aaatcctgnn attacaaaat ttgtttatga cattt                  105


<210> 342
<211> 105
<212> DNA
<213> Clostridium perfringens
```

<220>
<221> misc_feature
<222> (43)...(80)
<223> n = g, a, c or t/u

<400> 342
ataaaaaaat aaattttgct tcgtataact ctaatgatat ggnattagag gtctctacca 60
agaanccgag aanttcttgn attacgaaga aagcttattt gcttt   105

<210> 343
<211> 105
<212> DNA
<213> Vibrio vulnificus

<220>
<221> misc_feature
<222> (50)...(80)
<223> n = g, a, c or t/u

<400> 343
gactttcggc gatcaacgct tcatataatc ctaatgatat ggtttgggan gtttctacca 60
agagncctta aanctcttgn attatgaagt ctgtcgcttt atccg   105

<210> 344
<211> 228
<212> RNA
<213> Clostridium perfringens

<220>
<221> misc_feature
<222> (16)...(201)
<223> n = g, a, c or t/u

<400> 344
agugauggua gaggungcga aaaccnnaag naguacnaca gucugagaga aaugnnnnag 60
aaunnnncgu ugacnnnnga cuguuggaaa ggnngggauu cgccgaagug cagaucgggg 120
ncucauuccc nauuugcgcu ggaccuaugu unnngaauan agcauagggc ugucacaaca 180
cuagnnnnnc cccaannnnn ncuagugcug uggagaacua ucucacgu   228

<210> 345
<211> 228
<212> RNA
<213> Vibrio vulnificus

<220>
<221> misc_feature
<222> (16)...(203)
<223> n = g, a, c or t/u

<400> 345
agugaggaua gaggungcaa aaaccnnaag naguanncac aauuggannn ggannngaau 60
gagannnnuc cguugagaau ugugnngaaa ggnnggaauu ugccgaagcu ggaagaaunn 120
ncucaunngu ucugaaggcu gguucuguau unnnaaauan aauacagaac ugucauauag 180
cgnnnnnnng augunnnnnn nnnugcuaua uggagggcua ucucacgc   228

118

<210> 346
<211> 228
<212> RNA
<213> Bacillus halodurans

<220>
<221> misc_feature
<222> (16)...(206)
<223> n = g, a, c or t/u

<400> 346

agauggggua gaggangcgg guuuunnaag naguaangcg cuugnnnnnn nnngaggaug 60
acaacgagga nnnnnnnuaa gcgcncgaaa ggnnaaaacu cgccgaagcg ngaagaugnn 120
agucaagncg ucuucuugcu gggguugcau unnngaauan aauguaacac ugucacagcn 180
nnnnnnnnna gauunnnnnn nnnnnngcug uggagaacua cuaacguu 228

<210> 347
<211> 228
<212> RNA
<213> Bacillus subtilis

<220>
<221> misc_feature
<222> (16)...(205)
<223> n = g, a, c or t/u

<400> 347
ggugaagaua gaggungcga ancuucnaag naguaungcc uuuggagaan agannnnnug 60
gaunnnnnnu cugugaanaa aggcnugaaa ggnggagcgu cgccgaagca aauaaaaccn 120
nccaucnggu auuauuugcu ggccgugcau unnngaauan aauguaaggc ugucaagaaa 180
nnnnnnnnnu caunnnnnnn nnnnnuuucu uggagggcua ucucguug 228

<210> 348
<211> 228
<212> RNA
<213> Clostridium acetobutylicum

<220>
<221> misc_feature
<222> (16)...(225)
<223> n = g, a, c or t/u

<400> 348
accuuuugua gaggungcuu uaagucnaag naguaanccg uuugnnngag uunnnnnnng 60
gcannnnnna acuuagauga acggnuaaaa ggnggcuuuu agccgaagca uuuagauunn 120
nggcannnga uuuauuugcu ggcuuuucau annncaacan uaugaauggc ugucacuuua 180
uuagunnnnu aguunnnnna uuagnguaag uggagcgcua caannggu 228

<210> 349
<211> 228
<212> RNA
<213> Clostridium perfringens

```
<220>
<221> misc_feature
<222> (6)...(208)
<223> n = g, a, c or t/u

<400> 349
aaaganggua gaggcngcga gaaucnnaag nauuanncua aaauggannn guunnnnnna 60
agunnnnnag cguagaaguu uuagnngaaa ggnngauuau cgccgaaguu uuuggcunaa 120
uacuuuaang gcuaaaugcu gggguuguau annngaauan uauacaacac ugucacannn 180
nnnnnnnnnn aaannnnnnn nnnnnnnnug uggagagcua ucaucuua          228

<210> 350
<211> 229
<212> RNA
<213> Clostridium perfringens

<220>
<221> misc_feature
<222> (16)...(207)
<223> n = g, a, c or t/u

<400> 350
gaccaaagua gaggungccg uaauunnaag naguannguc auaaguagcu gacnnnnnna 60
agunnnnngu unnuuaugua ugaunngaaa ggnngauuau ggccgaagag auauuaaunn 120
nggugnnnau uaauauuucu ggguauaugu aunnnnaaun augcauauaa cugucacuuu 180
nnnnnnnnnn gaaannnnnn nnnnnnaaa guggagugcu acaagguac          229

<210> 351
<211> 228
<212> RNA
<213> Clostridium perfringens

<220>
<221> misc_feature
<222> (16)...(206)
<223> n = g, a, c or t/u

<400> 351
aacugagaua gaggcngcga ugnauunaau naguannucu uugcagaggu nnnnnnnnna 60
agcannnnnn nnauugaagc aaagnugaaa ggnnaugaau cgccgaaacc aunuagaaga 120
ggcuuuaauu cuauuagguu ggguugcau annngaauan uauguaacac ugucacaaan 180
nnnnnnnnnu uaunnnnnnn nnnnnnuuug uggugugcua ucaugaaa          228

<210> 352
<211> 228
<212> RNA
<213> Escherichia coli

<220>
<221> misc_feature
<222> (16)...(167)
<223> n = g, a, c or t/u
```

```
<400> 352
caggccagaa gaggcngcgn unugcccann naguaacggu guuggnnnag gannnnnnng 60
ccagnnnnnu ccugugauaa caccnnnnnu gggggugcau cgccgaggug auugaacgng 120
cuggccancg uucanucauc ggcuacaggg gncugaaunn ccccugnggu ugucaccaga 180
agcgcucgca gucgggcguu ucgcaagugg uggagcacuu cuggguga             228

<210> 353
<211> 228
<212> RNA
<213> Haemophilus influenzae

<220>
<221> misc_feature
<222> (16)...(205)
<223> n = g, a, c or t/u

<400> 353
uacaaaagua gaggcngcaa uuauunnaua naguannuuu uuucagagnu gnnnnnnnng 60
auaannnnnn cgaagaagaa aaaanngaaa ggnnaauagu ugccgaaauc aaauaaaann 120
ngucgnnnuu uuguuugguu gguggcgugc ucnngaaang ggngcgacac ugucauaguu 180
nnnnnnnnuu ucugauunnn nnnnnaacua uggagugcua cgguuguu             228

<210> 354
<211> 228
<212> RNA
<213> Oceanobacillus iheyensis

<220>
<221> misc_feature
<222> (16)...(205)
<223> n = g, a, c or t/u

<400> 354
guuuuggaua gaggungcgg agaccnnauc naguannuau acgcggannn agggnnnaaa 60
ugagnnnccc uagugaagcg uaugnngaaa ggnnggaauc ugccgaagcg agunngaaau 120
acucauucau uanacucguu ggugcugcua uunngaacaa auaacagucc ugucauauag 180
nnnnnnnnng agannnnnnn nnnnncuaua uggagggcua ucgagcug             228

<210> 355
<211> 228
<212> RNA
<213> Oceanobacillus iheyensis

<220>
<221> misc_feature
<222> (16)...(206)
<223> n = g, a, c or t/u

<400> 355
ucggugggua gaggangcau acaacnnauu naguannauc gacnnnnnnn naagaggaug 60
acaacgauga uannnnnngu uggunnggaa ggnguuguu ugccgaagca nuaauaagnn 120
ggucagancu uauuauugcu ggucaucuu unnngaauan aaagaugcac ugucaugcan 180
nnnnnnnnaa auuaagnnnn nnnnnnugca uggagaacua cugaucga             228
```

<210> 356
<211> 228
<212> RNA
<213> Pasteurella multocida

<220>
<221> misc_feature
<222> (16)...(206)
<223> n = g, a, c or t/u

<400> 356
uacuugugua gaggangcga ucacunnaua naguannuuu uuucugagnu gnnnnnnnng 60
auaannnnnn cgaagaggaa aaagnngaaa ggnnagugac cgccgaaauc aauugaaann 120
ngucannnuu uugauugguu gguggcguau ucnngaaang ganacgucau ugucauagun 180
nnnnnnnncu uuuuuaannn nnnnnnacua uggagcgcua cugguugg 228

<210> 357
<211> 228
<212> RNA
<213> Staphylococcus aureus

<220>
<221> misc_feature
<222> (16)...(205)
<223> n = g, a, c or t/u

<400> 357
auauuuugau gaggcngcau canaucnaug naguannaag uuuagannuu annnnnncug 60
ucugcnnnnn uaacagcuga auuunngaaa ggnngugcga ugccgaagcg anuuauaaun 120
nagcannguu auaauuuguu ggacuuuuug gunnuaagag cungagaguu ugucauuauu 180
nnnnnnnnnn uaaannnnnn nnnnnaauaa uggagugcau cacuugua 228

<210> 358
<211> 228
<212> RNA
<213> Staphylococcus aureus

<220>
<221> misc_feature
<222> (26)...(223)
<223> n = g, a, c or t/u

<400> 358
aauugaguua gagguugcau guuuannauu naguannacu ugunnnnnca gaaguauuua 60
ugguacauaa guugannnac aagunngaaa ggnnuaaaga ugccgaaaua gauauaanna 120
ccauaaannu uauaucuauu gggacaguuu unncgaauan ggaacuguac ugucacannn 180
nnnnnnnnnn gaannnnnnn nnnnnnnnug ugaugugcua ncncuuau 228

<210> 359
<211> 228
<212> RNA
<213> Staphylococcus epidermidis

<220>
<221> misc_feature
<222> (16)...(206)
<223> n = g, a, c or t/u

<400> 359
agauuuugau gaggcngcau canaucnaug naguannaac uuuagauaau uugnnnucug 60
cuaannnnca anuuannuag aguunnaaaa ggngnugaga ugccgaaaug auucauaaun 120
nagcannguu augaaucguu ggacuuaaug gunnuaagag cuaunaaguu ugucauuauu 180
nnnnnnnnna uuaannnnnn nnnnnnauaa uggagugcau cacuugua 228

<210> 360
<211> 228
<212> RNA
<213> Staphylococcus epidermidis

<220>
<221> misc_feature
<222> (26)...(223)
<223> n = g, a, c or t/u

<400> 360
aauagaguua gagguugcau uauuannaug nacuannacu uaunnnnnca gaagucguau 60
gggacaugug uugannnnau aagunngaaa ggnnuaauaa ugccgaaaug auguuanuuu 120
nccaunaaau uagcauuguu gggacaacuu unncgaauan gaaguuguac ugucacnnnn 180
nnnnnnnnnn uuuannnnnn nnnnnnnnug ugaugugcua ncncuuau 228

<210> 361
<211> 228
<212> RNA
<213> Shigella flexneri

<220>
<221> misc_feature
<222> (16)...(167)
<223> n = g, a, c or t/u

<400> 361
caggccagaa gaggcngcgn unugcccann naguaacggu guuggnnnag gannnnnnng 60
ccagnnnnnu ccugugauaa caccnnnuga gggggugcau cgccgaggug auugaacgng 120
cuggccancg uucanucauc ggcuacaggg gncugaaunn ccccugnggu ugucaccaga 180
agcguucgca gucgggcguu ucgcaagugg uggagcacuu cuggguga 228

<210> 362
<211> 228
<212> RNA
<213> Shewanella oneidensis

<220>
<221> misc_feature
<222> (16)...(208)
<223> n = g, a, c or t/u

<400> 362
aggaacagaa gaggangcgu uaancunann ngguannguc aaucagannn ggagnnnnca 60
caaannncuc cagcgaugau ugaunnngag ggnagauuag cgccgaggca uagaugugnn 120
guugcugnca uguuuauguc ggucgcuuag gncugaaunn nccuaacgau ugucaccnnn 180
nnnnnnnnnu guaauunnnn nnnnnnnngg uggagagcuu cuggugac 228

<210> 363
<211> 228
<212> RNA
<213> Shewanella oneidensis

<220>
<221> misc_feature
<222> (16)...(206)
<223> n = g, a, c or t/u

<400> 363
ccuuuaagua gaggcngcgc ugccunnaug nacuanncuu gugcgnnnnn nnngagggug 60
augccgcaga nnnnnnugua caagnngaaa ggnnagucag cgccgaagua gcncaggunn 120
caucaannna ccgagcngcu gguuuugcau ncaaauagnn ngugcaagac ugccauagun 180
nnnnnnnnnc auccnnnnnn nnnnnnacua uggagcgcua ccugaagg 228

<210> 364
<211> 228
<212> RNA
<213> Thermatoga maritima

<220>
<221> misc_feature
<222> (8)...(204)
<223> n = g, a, c or t/u

<400> 364
gacccgancg gaggcngcgc ccgagnnaug naguannggc uguccennnn nnnnaucagg 60
ggaggaaucg nnnnngggac ggcunngaaa ggnncgaggg cgccgaaggn gugcagaguu 120
ccucccngcu cugcaugccu gggggguaugg gnnngaauan cccauaccac ugucacggag 180
gnnnnnnnnn ucnnnnnnnn nnnnucuccg uggagagccg aucggguc 228

<210> 365
<211> 228
<212> RNA
<213> Thermoanaerobacter tengcongensis

<220>
<221> misc_feature
<222> (16)...(201)
<223> n = g, a, c or t/u

<400> 365
aggugaggua gaggcngcgg gucaucnaag naguannaca ugccagannn ggunnnguua 60
aggnnnnngc cgaugaaggu gugunngaaa ggnggugncc cgccgaagcn gcguaaacuu 120
nccuuaaggu uuacgcagcu gggccuaugc cnnngaacan gguauaggac ugucacugaa 180
ggcunnnnnc cccannnnnn nggccuucag uggagagcua ucucgcua 228

<210> 366
<211> 228
<212> RNA
<213> Thermoanaerobacter tengcongensis

<220>
<221> misc_feature
<222> (16)...(205)
<223> n = g, a, c or t/u

```
<400> 366
cgcauaaaua gaggangcug ccaagcnaun nnguauuugg cgaggguguua aggagaagaa 60
ccuccnnnnn nnaauancuc gcugnaagaa ggnnuuuggc ugccgaaagg gugagcuugn 120
nuucunnuga gcucauccuu ggugguaaac nnnacaaann nguuaccac ugucauggga 180
nnnnnnnnnn ccnnnnnnnn nnnnnuccca ugaagcgcua uuuaugca          228
```

```
<210> 367
<211> 228
<212> RNA
<213> Vibrio cholerae
```

```
<220>
<221> misc_feature
<222> (16)...(206)
<223> n = g, a, c or t/u
```

```
<400> 367
ucuagcagaa gaggangcac ugnncccagg cagnauguuu uguggannnn nnnngccuca 60
acuccaaunn nnnnnnnnac agaacauuca gggggaguag ugccgaggug aaucaaaguu 120
ngunnnggcu uugguuuauc gguugaacgg gncugaaunn cccnuucaac ugucaucagn 180
nnnnnnnncu cgaaunnnnn nnnnnncuga ugaagagcuu cugaggga          228
```

```
<210> 368
<211> 228
<212> RNA
<213> Vibrio cholerae
```

```
<220>
<221> misc_feature
<222> (16)...(223)
<223> n = g, a, c or t/u
```

```
<400> 368
uuucgccgua gaggangcgg uuacgnnaaa naguannucc acaguunnnn nnnnggggug 60
augccaaugn nnnnnaauug uggannaaaa ggnncguugc cgccgaaguc aacuugcnnc 120
caucaacnng cnaguuggcu gggguuacau unnncaauan gguguaacac ugccauagun 180
nnnnncuaua uuguuguuaa nnnnnnacua uggagcgcua cnnuguag          228
```

```
<210> 369
<211> 228
<212> RNA
<213> Vibrio cholerae
```

```
<220>
<221> misc_feature
<222> (7)...(207)
<223> n = g, a, c or t/u
```

```
<400> 369
cuuuaangua gaggcngcgc uguucnnaug nagucgncca gucgunnnnn nnnnagguug 60
accccgaugn nnnnnnauga cuggnuuaaa ggnnguacag cgccgaagug aucguugnnn 120
cgucaunnnc aacguucgcu gggccagcau unnngaacan aaugccggac ugccauagnn 180
nnnnnnnnug uguugunnnn nnnnnnncua uggagcgcua ccuugaag          228
```

```
<210> 370
<211> 228
<212> RNA
<213> Vibrio vulnificus

<220>
<221> misc_feature
<222> (16)...(204)
<223> n = g, a, c or t/u

<400> 370
uuuugcagaa gaggangcac ugnncccagg cagnauguuu uguggannnn nnnngccgca  60
acuccaacnn nnnnnnnnac agaacauuca gggggaguag ugccgaggua gaucaaaauu 120
ngcanngauu ungaucuguc gguugacuug gguugagunc ccannucaac ugucaucagc 180
nnnnnnnnnn ucannnnnnn nnnngccuga ugaagagcuu cugagaug                228

<210> 371
<211> 228
<212> RNA
<213> Vibrio vulnificus

<220>
<221> misc_feature
<222> (16)...(206)
<223> n = g, a, c or t/u

<400> 371
uaucgacgua gaggcngcaa uggnuanaag naguannacu auuauunnnn nnnnggggug  60
augccaaugn nnnnnaauaa uagunngaaa ggnuauccau ugccgaagug aauugcnnna 120
uaucaaannn gcaguuugcu ggggguugcau ccnngaaang gaancaacac ugccauagun 180
nnnnnnauuu aauguauann nnnnnnacua uggagcgcua cuguaggu                228

<210> 372
<211> 486
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:/Note=Synthetic
      construct

<220>
<221> misc_feature
<222> (1)...(486)
<223> n = g, a, c or t/u

<220>
<221> misc_feature
<222> 28, 54, 61, 145, 161, 170, 171, 207, 208, 213, 216, 217,
219, 220, 309, 309-313
<223> r = a or g

<220>
<221> misc_feature
<222> 9, 27, 37, 50, 70, 152, 203, 204, 271-275, 320
<223> y = c or t/u
```

```
<400> 372
nnnnnnnnyc ttatcnagag nnnnggyrga gggannyngg nnnncccnny ganrccnnnc 60
rgcaacnnny nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120
nnnnnnnnnn nnnnnnnnnn nnnnrnngtg cyaantnccn rnnnnnncar rnnnnnnnnn 180
nnnnnnnnnn nnnnnnnnnn nnyytgrrag atragrrnrr nnnnnnnnnn nnnnnnnnnn 240
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn yyyyynnnnn nnnnnnnnnn nnnnnnnnnn 300
nnnnnnnnrr rrrnntttty nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 360
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 420
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 480
nnnnnn                                                           486

<210> 373
<211> 504
<212> RNA
<213> Artificial Sequence


<220>
<223> Description of Artificial Sequence:/Note=Synthetic
      construct

<220>
<221> misc_feature
<222> (1)...(504)
<223> n = g, a, c or t/u

<220>
<221> misc_feature
<222> 75, 98, 128, 136, 139, 151, 156, 161, 297, 479, 486
<223> r = a or g

<220>
<221> misc_feature
<222> 29, 94, 143, 298, 379, 387, 474, 476, 482
<223> y = c or t/u

<400> 373
nnnnnnnnnn nnnnnnnnnn nnggunnnyn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 60
nnnnnnnnnn nnnnrnnnnn aannngggaa nnnyggurnn nnnnnnnnnn nnnnnnnnnn 120
nnnnnnnran nnnccrnnrc ngynccegcn rcngurannn rnnnnnnnnn nnnnnnnnnn 180
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnryca 300
cugnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 360
nnnnnnnnnn nnnnnnnnyg ggaaggynnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 420
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnynynnra 480
gycngragac cngccnnnnn nnnn                                        504

<210> 374
<211> 83
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:/Note =
      synthetic construct
```

```
<220>
<221> misc_feature
<222> (1)...(83)
<223> n = g, a, c or t/u

<220>
<221> misc_feature
<222> 74, 76
<223> r = a or g

<220>
<221> misc_feature
<222> 13, 71
<223> w = a or t/u

<220>
<221> misc_feature
<222> 10, 42, 70, 73
<223> y = c or t/u

<400> 374
nnnnnnnnny ntwtannnnn nnnnatnngg nnnnnnnngt nyctacnnnn nnnccnnnaa 60
nnnnnnnnny wayrnrnnnn nnn                                        83

<210> 375
<211> 238
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:/Note =
      Synthetic construct

<220>
<221> misc_feature
<222> (7)...(233)
<223> n = g, a, c or t/u

<220>
<221> misc_feature
<222> 234, 237
<223> r = a or g

<220>
<221> misc_feature
<222> 209
<223> y = c or t/u

<400> 375
ctgagannnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 60
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180
nnnnnnnnnn nnnnnnnnnn nnnnnnacyt gannnnngnt nnnncnnnnn cgnrggra   238
```

```
<210> 376
<211> 221
<212> DNA
<213> Bacillus subtilis

<220>
<221> misc_feature
<222> 25
<223> k = g or t/u

<220>
<221> misc_feature
<222> (7)...(217)
<223> n = g, a, c or t/u

<220>
<221> misc_feature
<222> 24, 78, 79, 81, 96, 97, 213
<223> r = a or g

<220>
<221> misc_feature
<222> 153
<223> v = g, c or a

<220>
<221> misc_feature
<222> 1, 214, 220
<223> w = a or t/u

<220>
<221> misc_feature
<222> 169, 221
<223> y = c or t/u

<400> 376
wagaggngcn nnnnnnnnna nnnrktannn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 60
nnnnnnnnnn nnnnnnnrrg rnnnnnnnnn nccgarrnnn nnnnnnnnnn nnnnnnnnnn 120
nnnnnnnnnn nnnnnnnggn nnnnnnnnnn nnvaannnnn nnnnnnnnyt gtcannnnnn 180
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn tgrwgnnctw y                    221

<210> 377
<211> 54
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:/Note =
      Synthetic construct

<220>
<221> misc_feature
<222> (1)...(54)
<223> n = g, a, c or t/u

<400> 377
nntannnnnn nnatnnggnn nnnnngtntc tacnnnnnnc cnnnaannnn nnnn        54
```